

MHC-VX55/VX55J

SERVICE MANUAL

REVISED

E Model
MHC-VX55/VX55J

Tourist Model
MHC-VX55J

- MHC-VX55/VX55J are composed of following models.
As for the service manual, it is issued for each component model, then, please refer to them.
- There are two types of COMMANDER, STANDARD.
The new and former.
Both have the same specifications except COVER BATTERY that is not interchangeable between new and former.
Be careful when placing order.

COMPONENT MODEL NAME

	MHC-VX55 (EXCEPT E)	MHC-VX55 (E)	MHC-VX55J
COMPACT DISC DECK RECEIVER SYSTEM	HCD-VX55	HCD-VX55	HCD-VX55J
FRONT SPEAKER SYSTEM	SS-VX55	SS-VX55B	SS-VX55J

• Abbreviation

EA : Saudi Arabia model
MY : Malaysia model
SP : Singapore model
IA : Indonesia model
TH : Thai model
HK : Hong Kong model
TW : Taiwan model
JE : Tourist model

SPECIFICATIONS

General

Power requirements	
Thai model:	220 V AC, 50/60 Hz
Other models:	120 V, 220 V or 230-240V AC, 50/60 Hz Adjustable with voltage selector
Power consumption	230 watts
Dimensions (w/h/d)	Approx. 280 x 360 x 425 mm (11 x 14 ³ / ₁₆ x 16 ¹¹ / ₁₆ in)
Mass	Approx. 9.5 kg
Supplied accessories:	AM loop antenna (1) Remote Commander (1) Batteries (2) Video cable (1) FM lead antenna (1) Front speaker pads (8)

Design and specifications are subject to change without notice.

PARTS LIST

Part No.	Description	Remark
ACCESSORIES & PACKING MATERIALS *****		
1-418-762-11	COMMANDER, STANDARD (RM-SV100)(EXCEPT E)	
1-418-762-21	COMMANDER, STANDARD (RM-SV100B)(VX55: E)	
1-476-481-11	COMMANDER, STANDARD (RM-SV101)(EXCEPT E)	
1-476-481-21	COMMANDER, STANDARD (RM-SV101B)(VX55: E)	
1-501-374-11	ANTENNA, LOOP (AM)	
1-501-659-71	ANTENNA (FM)	
1-751-619-11	CORD, CONNECTION (VIDEO)(VX55)	
4-210-254-01	CUSHION (FOOT)	
4-226-941-11	MANUAL, INSTRUCTION (ENGLISH)(VX55: E, EA, MY, SP/VX55J)	
4-226-941-21	MANUAL, INSTRUCTION (FRENCH)(VX55: E, EA, MY, SP/VX55J)	
4-226-941-31	MANUAL, INSTRUCTION (SPANISH)(VX55: E, MY, SP/VX55J: JE)	
4-226-941-41	MANUAL, INSTRUCTION (CHINESE)(VX55: E, MY, SP/VX55J)	
4-226-941-51	MANUAL, INSTRUCTION (ARABIC)(VX55: E, EA/VX55J)	
4-226-941-61	MANUAL, INSTRUCTION (ENGLISH, THAI)(VX55: TH)	
4-226-942-61	MANUAL, INSTRUCTION (ENGLISH, INDONESIAN) (VX55: IA)	
4-232-032-01	COVER, BATTERY (FOR RM-SV101)(EXCEPT E)	
4-232-033-01	COVER, BATTERY (FOR RM-SV101B)(VX55: E)	
4-983-536-01	COVER, BATTERY (FOR RM-SV100B)(VX55: E)	
4-983-536-11	COVER, BATTERY (FOR RM-SV100)(EXCEPT E)	

MINI Hi-Fi COMPONENT SYSTEM

SONY®

HCD-VX55/VX55J

SERVICE MANUAL

E Model

HCD-VX55/VX55J

Tourist Model

HCD-VX55J



Photo: HCD-VX55

- HCD-VX55/VX55J is the tuner, deck, CD and amplifier section in MHC-VX55/VX55J.

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM58-K2BD37A
	Base Unit Name	BU-K2BD37A
	Optical Pick-up Name	KSM-213DAP
Tape deck Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	TCM-230PWR11C

SPECIFICATIONS

Amplifier section

The following measured at AC 120, 220, 240V
50/60 Hz

DIN power output (rated) 95 + 95 watts
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference)
125 + 125 watts
(6 ohms at 1 kHz,
10% THD)

Inputs

MD/VIDEO (AUDIO) IN: voltage 450 mV/250 mV,
(phono jacks) impedance 47 kilohms

MIC: sensitivity 1 mV,
(phone jack) impedance 10 kilohms

Outputs

VIDEO OUT:
(Phono jack) max. output level 1 Vp-p,
unbalanced, Sync
negative, load impedance
75 ohms

S-VIDEO OUT:
(4 pin / mini-DIN jack) Y: 1 Vp-p, unbalanced
Sync negative
C: 0.286 Vp-p

load impedance 75 ohms
accepts headphones of 8
ohms or more
accepts impedance of 6 to
16 ohms

PHONES:

(stereo mini jack)

FRONT SPEAKER:

VIDEO CD/CD player section

System Compact disc and digital
audio system

Laser Semiconductor laser
($\lambda=780\text{nm}$)

Emission duration:
continuous

Frequency response 2 Hz – 20 kHz (± 0.5 dB)

Wavelength 780 – 790 nm

Signal-to-noise ratio More than 90 dB

Dynamic range More than 90 dB

Video color system format

NTSC, PAL

CD OPTICAL DIGITAL OUT

(Square optical connector jack, rear panel)

Wavelength

660 nm

Output Level

-18 dBm

Tape player section

Recording system 4-track 2-channel stereo

Frequency response 40 – 13,000 Hz (± 3 dB),
using Sony TYPE I
cassette

— Continued on next page —

MINI Hi-Fi COMPONENT SYSTEM

SONY®

Tuner section

FM stereo, FM / AM superheterodyne tuner

FM tuner section

Tuning range	Tourist model : 76 - 108 MHz Other models : 87.5 – 108.0 MHz
Antenna	FM lead antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
Middle Eastern models:	531 – 1,602 kHz (with the interval set at 9 kHz)
Other models:	531 – 1,602 kHz (with the interval set at 9 kHz) 530 – 1,710 kHz (with the interval set at 10 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

General

Power requirements	
Thailand models:	220 V AC, 50/60 Hz
Other models:	120 V, 220 V or 230 - 240 V AC, 50/60 Hz Adjustable with voltage selector
Power consumption	230 watts
Dimensions (w / h / d)	Approx. 280 x 360 x 425 mm (11x 14 ³ / ₁₆ x 16 ¹¹ / ₁₆ in.)
Mass:	Approx. 9.5 kg (21 lb.)
Supplied accessories:	AM loop antenna (1) Remote commander (1) Batteries (2) Video cable (1) FM lead antenna (1) Front speaker pads (8)

Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer.

1.

Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2.

Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3.

Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4.

Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5.

Check the B+ voltage to see it is at the values specified.
6.

Flexible Circuit Board Repairing
 - Keep the temperature of the soldering iron around 270°C during repairing.
 - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
 - Be careful not to apply force on the conductor when soldering or unsoldering.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

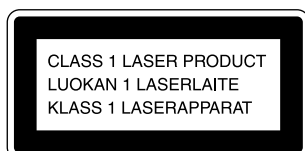
The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

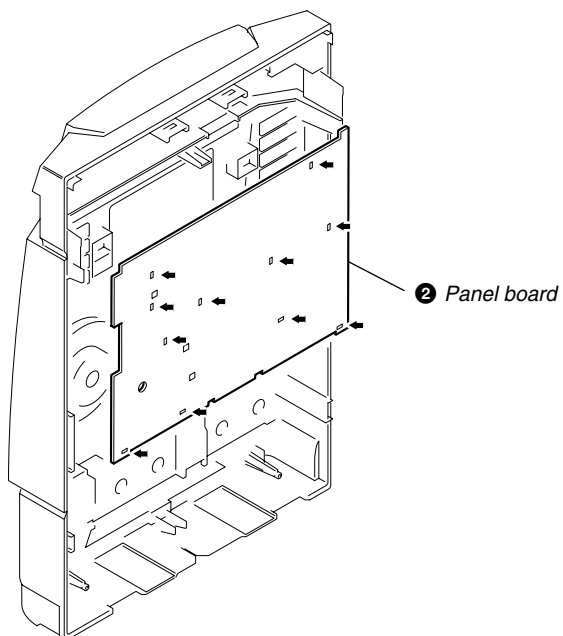
Flexible Circuit Board Repairing

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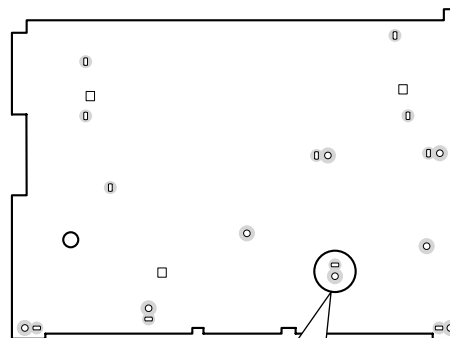
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SECTION 1 SERVICE NOTE



❶ Cut the eleven melted-connection points with a cutting plier.

Note for installing the panel board



Hot melt

Screw hole

Attach the panel board with
six screws (+BVTP 2.6 × 8)
after the board is removed once.
Do not tighten the screws excessively.

SECTION 2 GENERAL

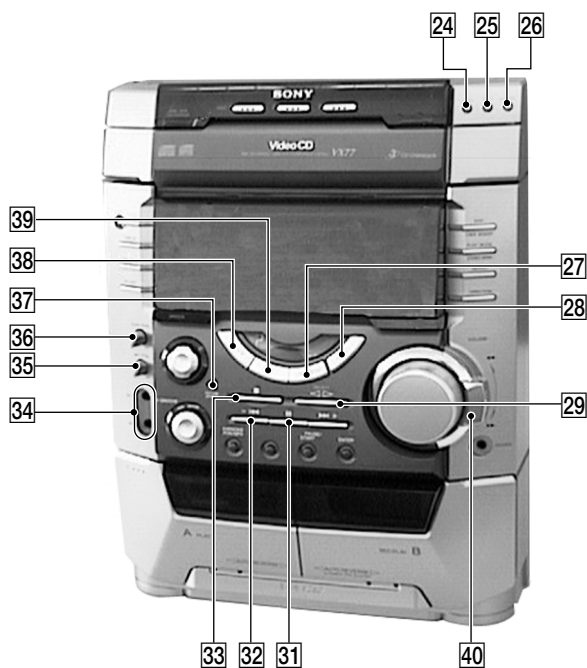
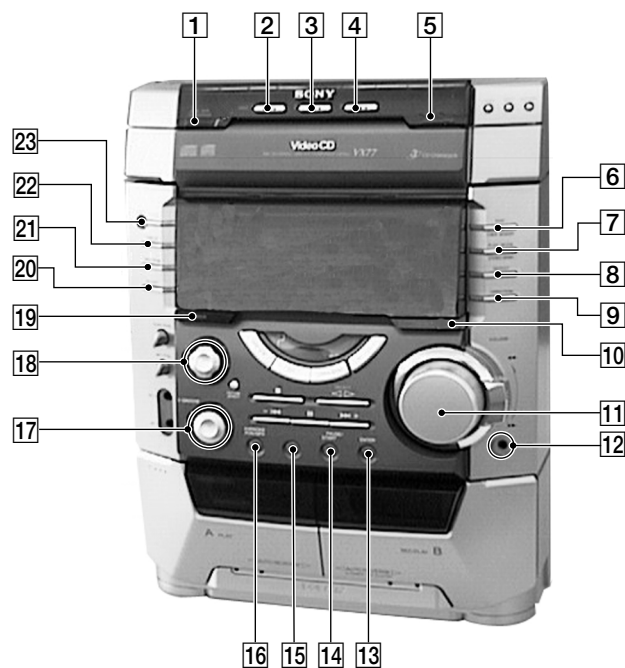


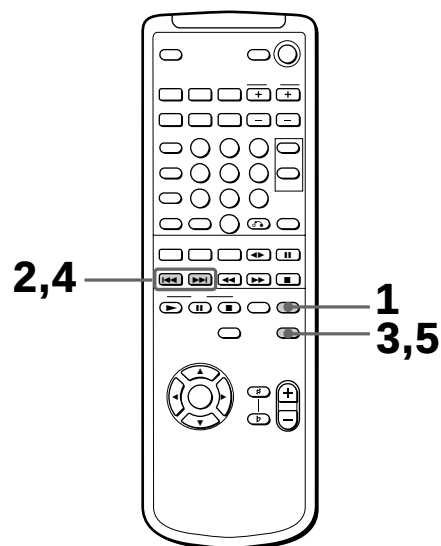
Photo: HCD-VX55

- 1** DISC SKIP EX-CHANGE button
- 2** DISC 1 button and indicator
- 3** DISC 2 button and indicator
- 4** DISC 3 button and indicator
- 5** ▲ OPEN/CLOSE button
- 6** EDIT, TUNER MOMERY button
- 7** PLAY MODE, STEREO/MONO button
- 8** REPEAT button
- 9** DIRECTION button
- 10** CINEMA SPACE button
- 11** VOLUME knob
- 12** PHONE jack
- 13** ENTER button
- 14** REC PAUSE/START button and indicator
- 15** CD SYNC HI-DUBB button
- 16** KARAOKE PON/MPX button
- 17** V-GROOVE button and indicator
- 18** CURSOL button and indicator
- 19** GROOVE button
- 20** EQ EDIT button

- 21** SPECTRUM button
- 22** DISPLAY button
- 23** I/⏻ button and indicator
- 24** PREV button
- 25** NEXT button
- 26** RETURN button
- 27** TUNER BAND button
- 28** MD (VIDEO) button
- 29** ◀▶/SELECT button
- 30** ▶▶ + button
- 31** || button
- 32** - ◀◀ button
- 33** ■ button
- 34** MIC1/MIC2 jack
- 35** MIC LEVEL button
- 36** ECHO LEVEL button
- 37** PICTURE EFFECT button
- 38** TAPE A/B button
- 39** CD button
- 40** ◀◀/▶▶ knob

Step2: Setting the time

You must set the time before using the timer functions.

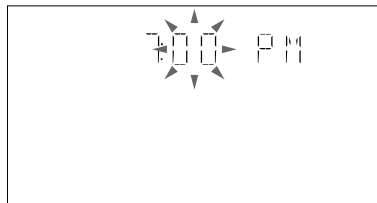


- 1** Press CLOCK/TIMER SET.
The hour indication flashes.



- 2** Press ◀ or ▶ repeatedly to set the hour.

- 3** Press ENTER.
The minute indication flashes.



- 4** Press ◀◀ or ▶▶ repeatedly to set the minute.

- 5** Press ENTER.
The clock starts working.

Tip

If you've made a mistake, start over from step 1.

To change the time

The previous explanation shows you how to set the time while the power is off. To change the time while the power is on, do the following:

- 1** Press CLOCK/TIMER SET.
- 2** Press ◀◀ or ▶▶ repeatedly to select SET CLOCK.
- 3** Press ENTER.
- 4** Perform steps 2 through 5 above.

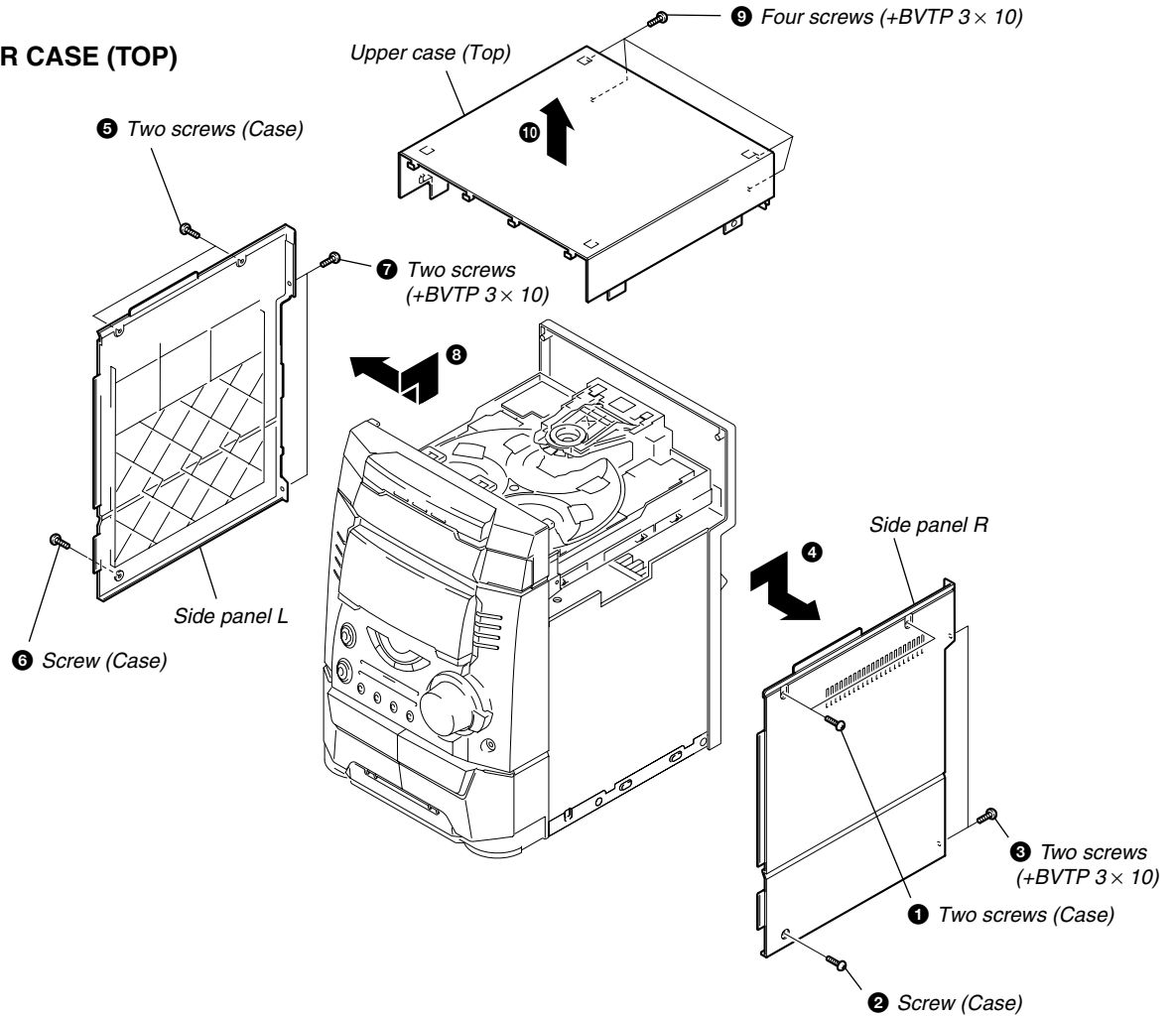
Note

The clock settings are canceled when you disconnect the power cord or if a power failure occurs.

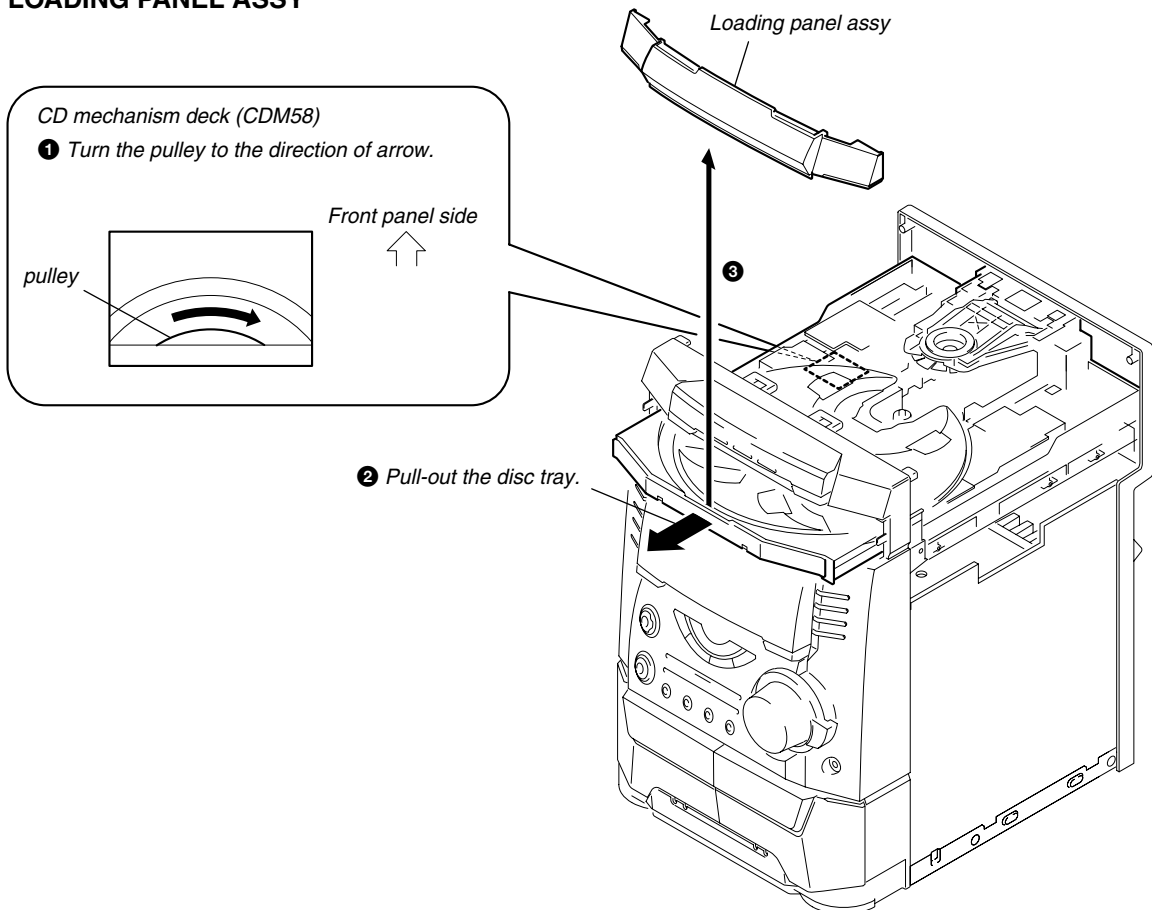
SECTION 3 DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

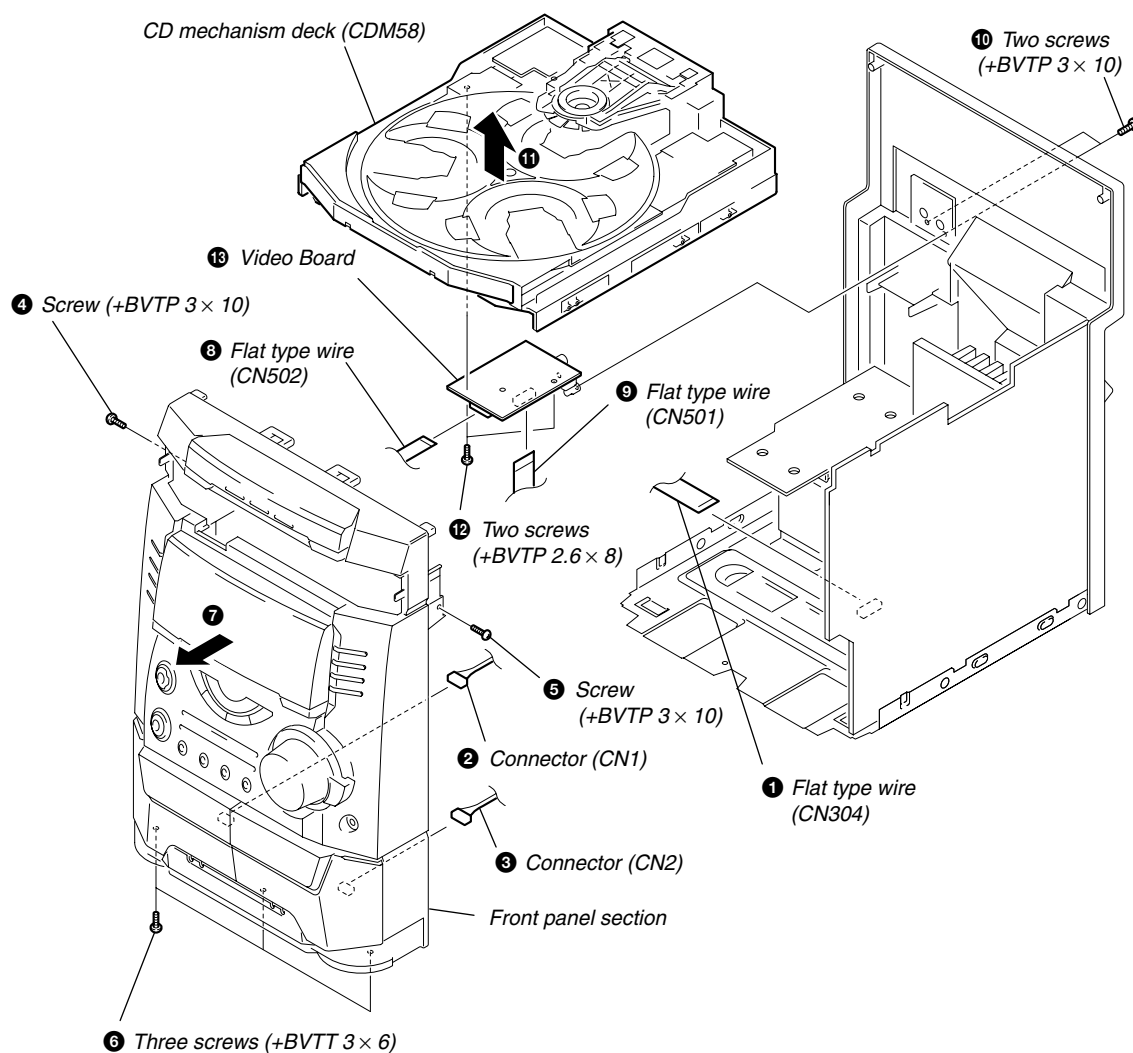
3-1. UPPER CASE (TOP)



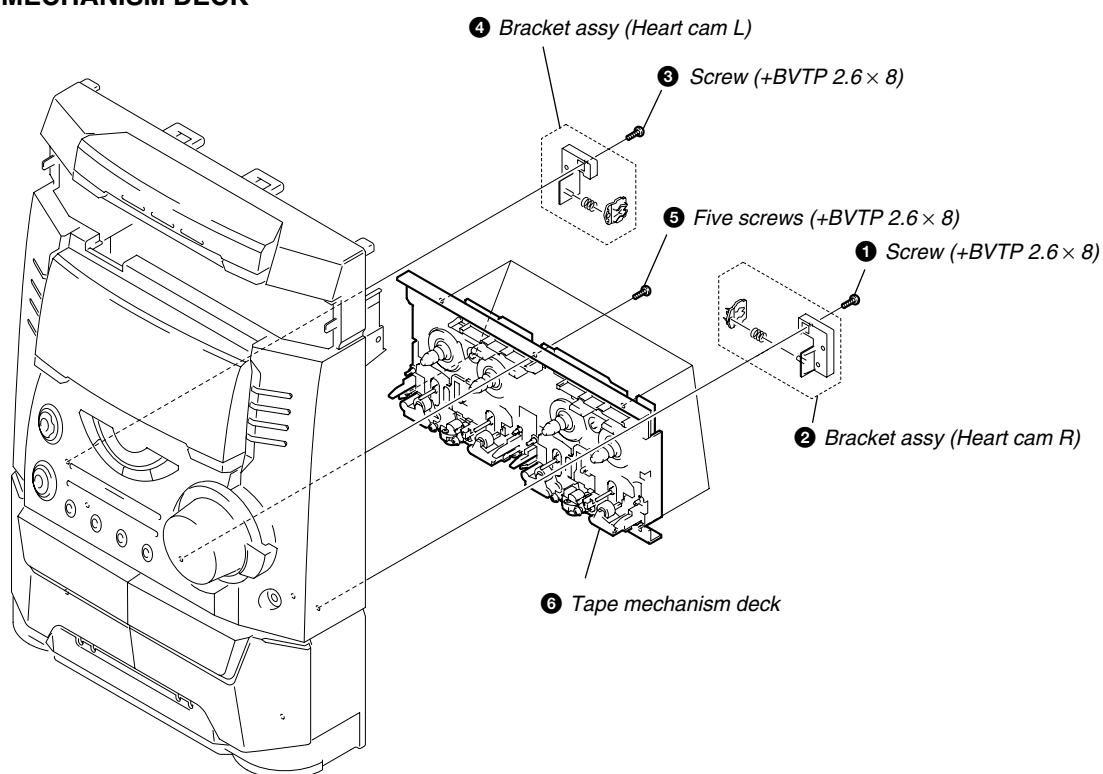
3-2. LOADING PANEL ASSY



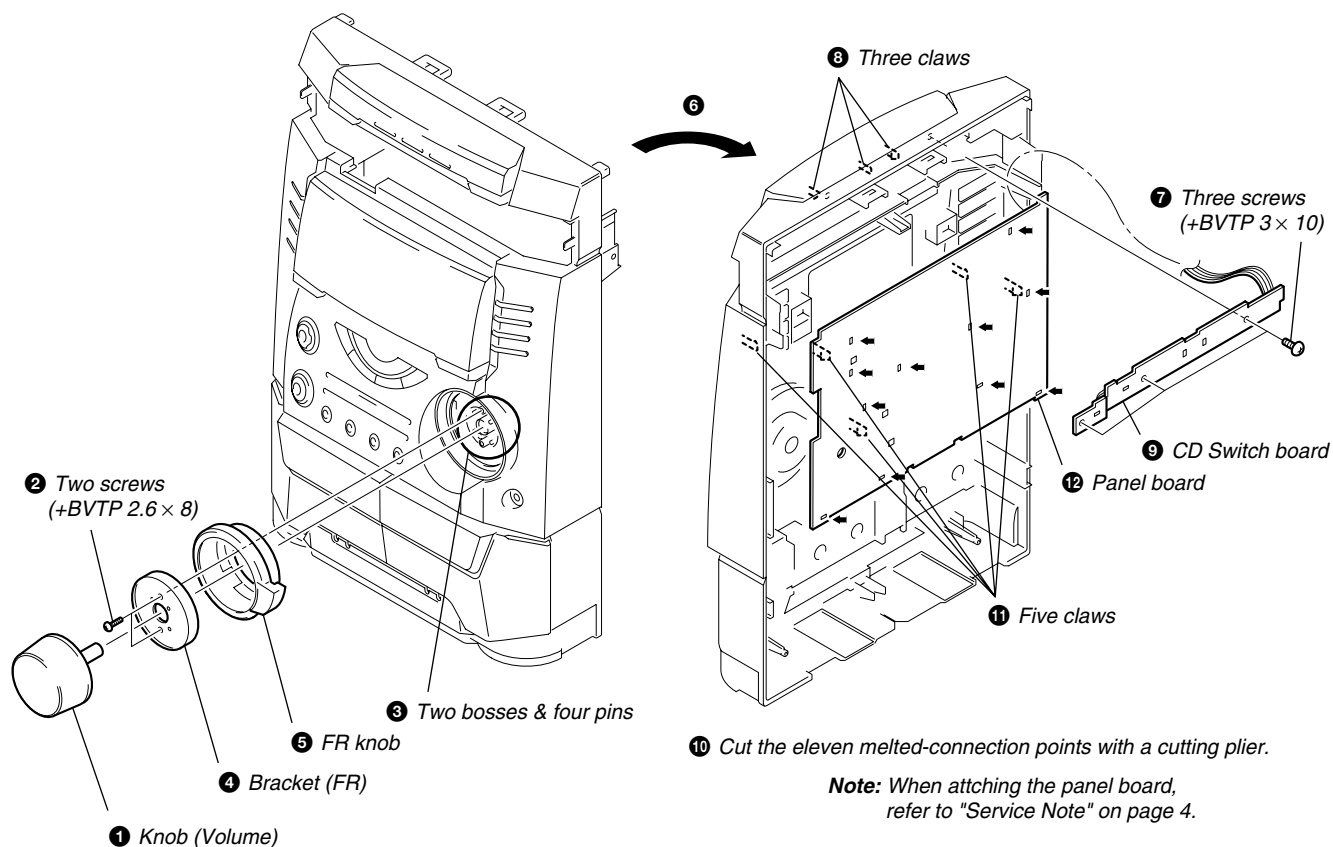
3-3. FRONT PANEL SECTION



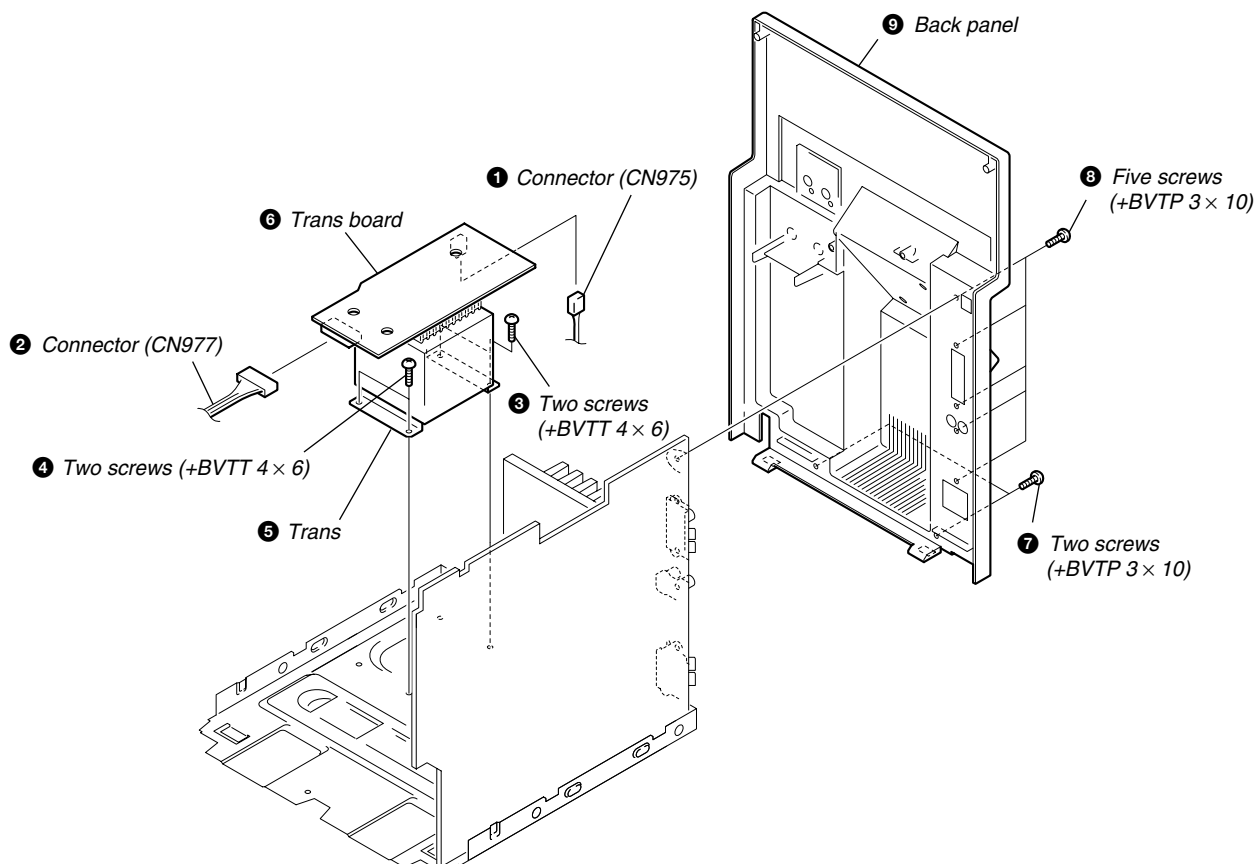
3-4. TAPE MECHANISM DECK



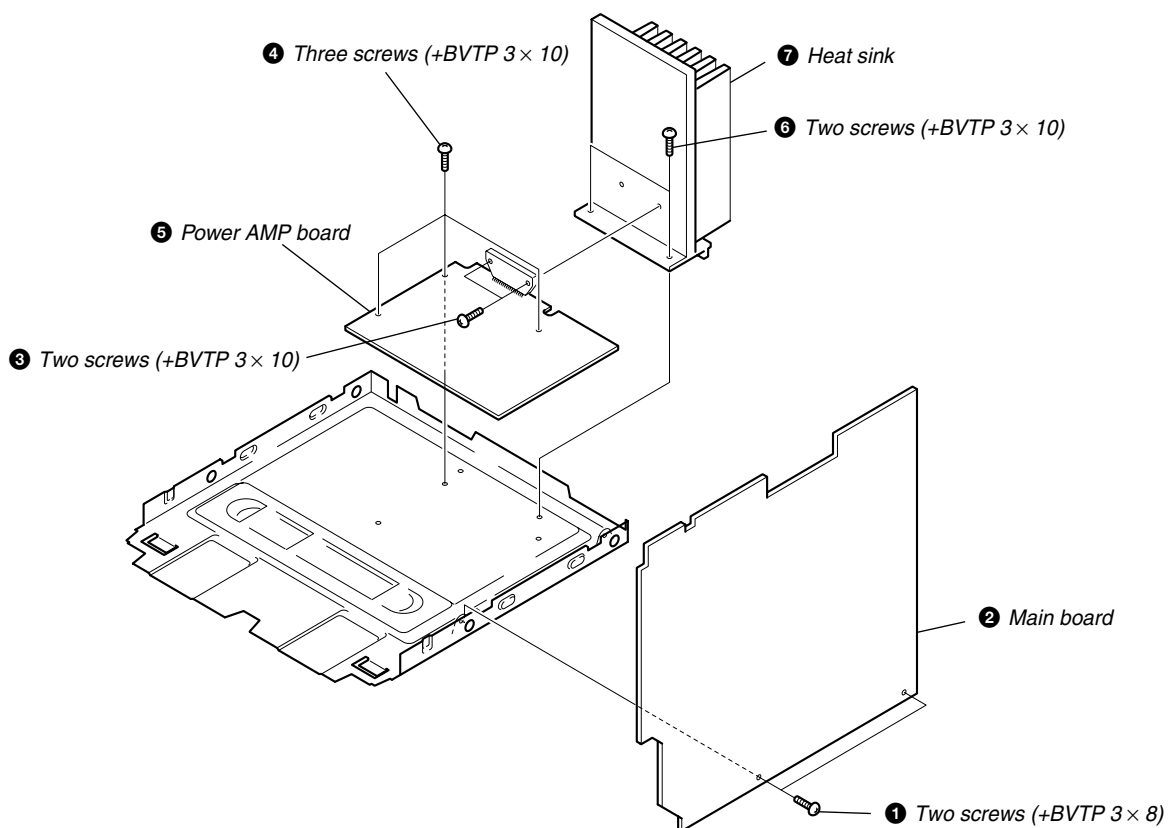
3-5. PANEL BOARD



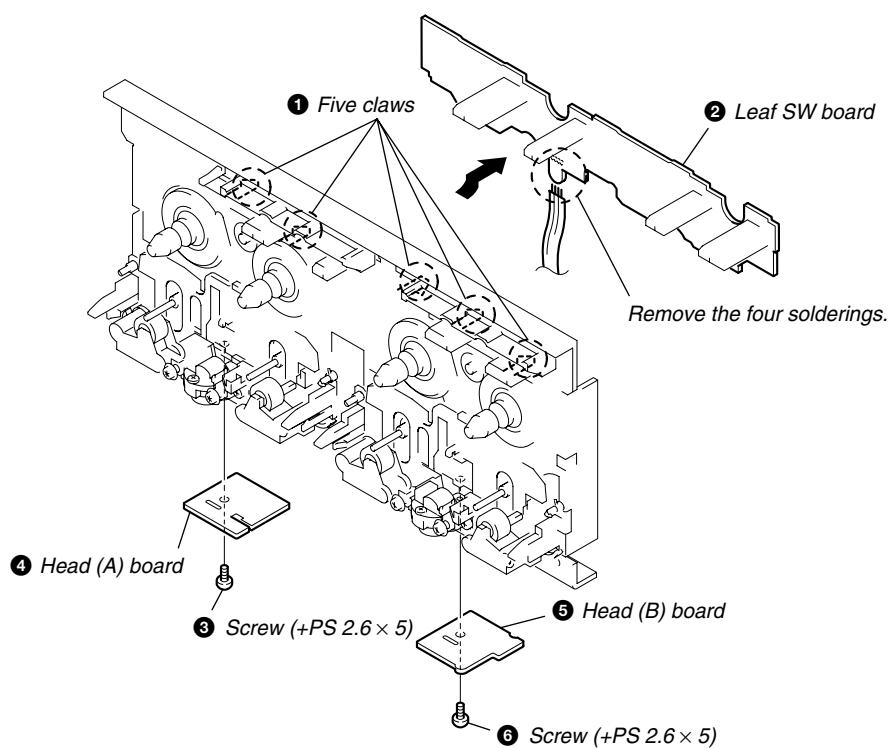
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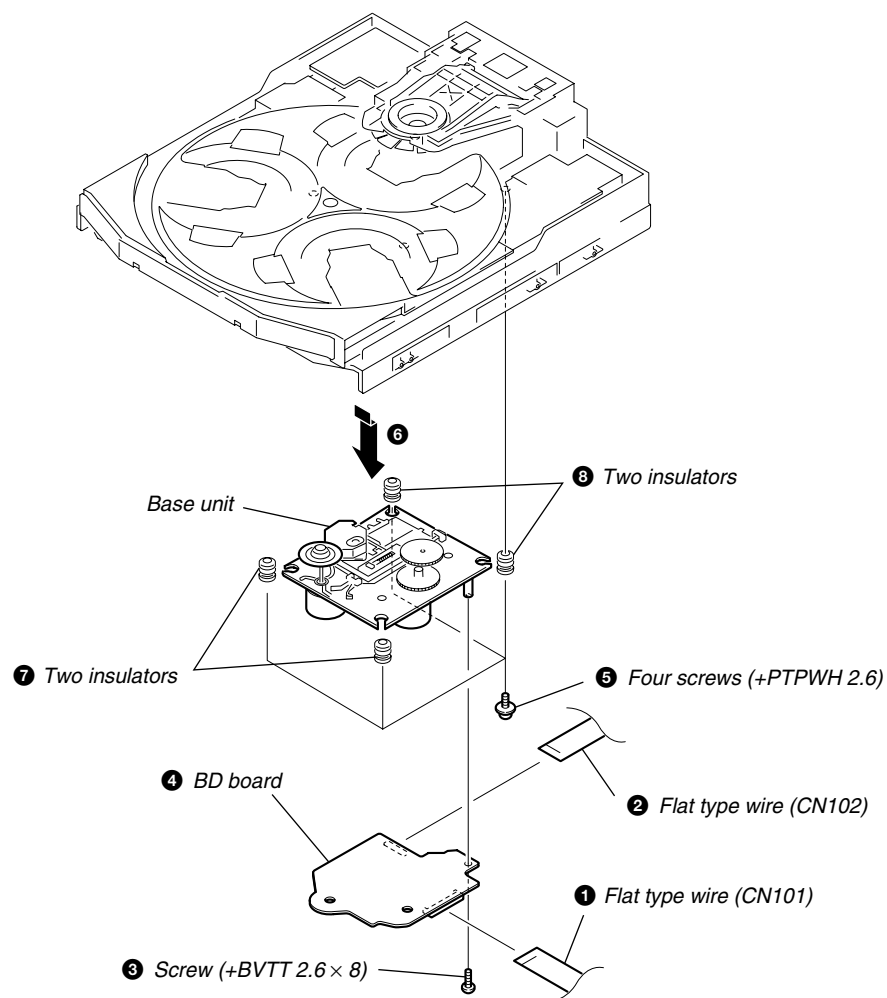
3-7. MAIN BOARD AND AMP BOARD



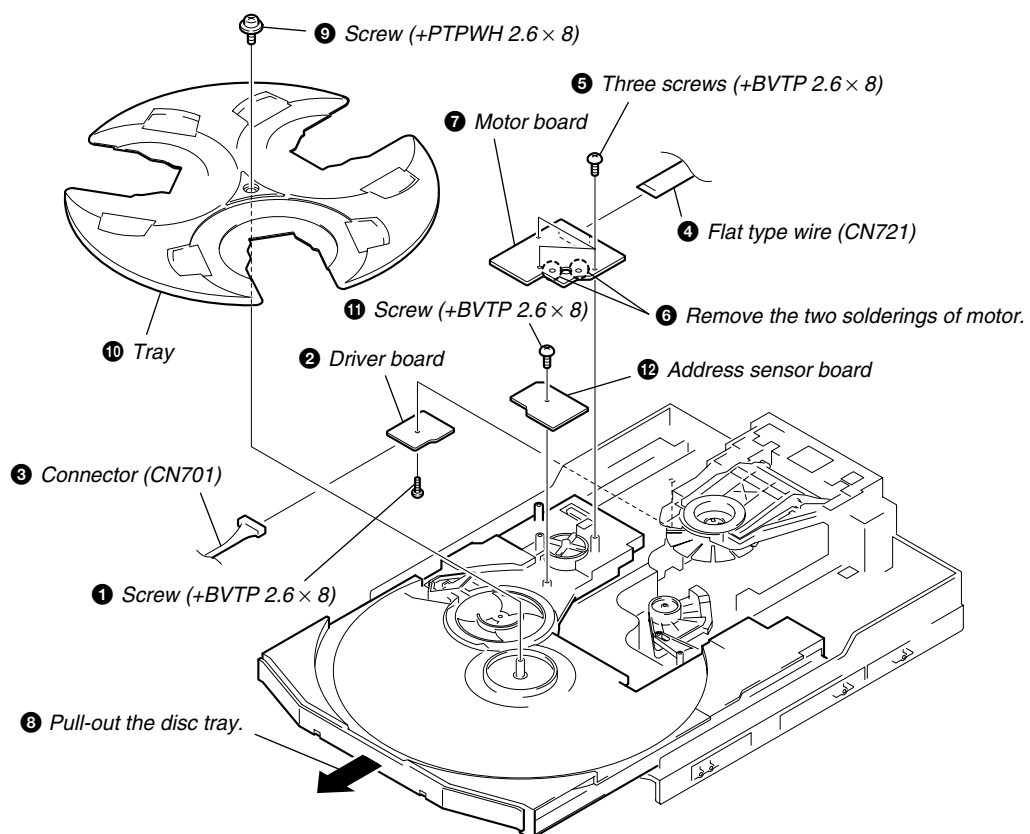
3-8. LEAF SW BOARD, HEAD (A) BOARD AND HEAD (B) BOARD



3-9. BASE UNIT



3-10. DRIVER BOARD, MOTOR BOARD AND ADDRESS SENSOR BOARD



SECTION 4 TEST MODE

[MC Cold Reset]

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press three buttons **[■]**, **[ENTER]**, and **[I/⏻]** simultaneously.
2. The fluorescent indicator tube displays “COLD RESET” and the set is reset.

[CD Ship Mode]

- This mode moves the pickup to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press **[I/⏻]** button to turn the set ON.
2. Press three buttons **[■]**, **[ENTER]**, and **[SPECTRUM]** simultaneously.
3. After the "STANDBY" display blinks six times, a message “LOCK” is displayed on the fluorescent indicator tube, and the CD ship mode is set.

[MC Hot Reset]

- This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

Procedure:

1. Press three buttons **[■]**, **[ENTER]**, and **[DISPLAY]** simultaneously.
2. The fluorescent indicator tube becomes blank instantaneously, and the set is reset.

[CD Service Mode]

- This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pickup.

Procedure:

1. Press **[I/⏻]** button to turn the set ON.
2. Select the function “CD”.
3. Press three buttons **[■]**, **[ENTER]**, and **[▲ OPEN/CLOSE]** simultaneously.
4. The CD service mode is selected.
5. With the CD in stop status, turn the shuttle knob clockwise to move the pickup to outside track, or turn the shuttle knob counter-clockwise to inside track.
6. To exit from this mode, perform as follows:
 - 1) Move the pickup to the most inside track.
 - 2) Press three buttons in the same manner as step 2.

- Note:**
- Always move the pickup to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
 - Do not run the sled motor excessively, otherwise the gear can be chipped.

[VACS ON/OFF Mode]

- This mode is used to switch ON and OFF the VACS (Variable Attenuation Control System).

Procedure:

Press the **[ENTER]** and **[SPECTRUM]** buttons simultaneously. The message “VACS OFF” or “VACS ON” appears.

[Change-over of AM Tuner Step between 9 kHz and 10 kHz]

- A step of MW channels can be changed over between 9 kHz and 10 kHz.

Procedure:

1. Press **[I/⏻]** button to turn the set ON.
2. Select the function “TUNER”, and press **[TUNER/BAND]** button to select the BAND “AM”.
3. Press **[I/⏻]** button to turn the set OFF.
4. Press **[ENTER]** and **[I/⏻]** buttons simultaneously, and the display of fluorescent indicator tube changes to “AM 9 k STEP” or “AM 10 k STEP”, and thus the channel step is changed over.

[GC Test Mode]

- This mode is used to check the software version, FL tube, LED, keyboard and VACS.

Procedure:

1. Press three buttons **[■]**, **[ENTER]**, and **[DISC 2]** simultaneously.
2. LEDs and fluorescent indicator tube are all turned on.
3. When you want to enter the software version display mode, press **[DISC 1]**. The model number and destination are displayed.
4. Each time **[DISC 1]** is pressed, the display changes starting from MC version, GC version, VC version, CD version, CM version, ST version, TC version, TA version, TM version and BR version in this order, and returns to the model number and destination display.
5. When **[DISC 3]** is pressed while the version numbers are being displayed except model number and destination, year, month and day of the software creation appear. When **[DISC 3]** is pressed again, the display returns to the software version display. When **[DISC 1]** is pressed while year, month and day of the software creation are being displayed, the year, month and day of creation of the software versions are displayed in the same order of version display.
6. Press **[DISC 2]** button, and the key check mode is activated.
7. In the key check mode, the fluorescent indicator tube displays “KEY0 VOL0”. Each time a button is pressed, “KEY” value increases. However, once a button is pressed, it is no longer taken into account.
“VOL” value increases like 1, 2, 3 ... if rotating **[VOLUME]** knob in “+” direction, or it decreases like 0, 9, 8 ... if rotating in “-” direction.
8. Also when **[DISC 3]** is pressed after lighting of all LEDs and FL tubes, value of VACS appears.
9. To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[MC Test Mode]

- This mode is used to check operations of the respective sections of Amplifier, Tuner, CD and Tape.

Procedure:

1. Press the three buttons of , [ENTER] and [DISC 3] simultaneously.
2. A message "TEST MODE" appears on the FL display tube.
3. When [ (CURSOR UP)] button is pressed, GEQ increases to its maximum and a message "GEQ AMX" appears.
4. When [ (CURSOR DOWN)] button is pressed, GEQ decreases to its minimum and a message "GEQ MIN" appears.
5. When [ (CURSOR LEFT)] or [ (CURSOR RIGHT)] button is pressed, GEQ is set to flat and a message "GEQ FLAT" appears.
6. When the VOLUME control knob is turned clockwise even slightly, the sound volume increases to its maximum and a message "VOLUME MAX" appears for two seconds, then the display returns to the original display.
7. When the VOLUME control knob is turned counter-clockwise even slightly, the sound volume decreases to its minimum and a message "VOLUME MIN" appears for two seconds, then the display returns to the original display.
8. In the test mode, the default-preset channel is called even when the TUNER is selected and an attempt is made to call the preset channel that has been stored in memory, by operating the Shuttle knob. (It means that the memory is cleared.)
9. When CD is selected and the [EDIT] button is pressed, the disc that is being chucked at this moment becomes the default setting. It means that the default disc only is accessed when any other discs are selected even though the display indication changes accordingly. At the same time, the [DISK SKIP EX-CHANGE] and [OPEN/CLOSE] cannot be accepted. (It means that the tray motor and the turntable motor are disabled of their operation.)
10. When a tape is inserted in Deck B and recording is started, the input source function selects VIDEO automatically.
11. When  button is pressed to stop recording, the Tape (Deck) B is selected and tape is rewound using the Shuttle knob, tape is rewound, tape is stops at around the record-starting position and playback of the recorded portion of the tape is started. If PAUSE is inserted even once during recording, tape is rewound to the position around the PAUSE position and is played back.
12. When the [CD SYNC HI-DUB] Button is press during playback of Deck B, either normal speed or high speed can be selected by this button.
13. Select the desired loop by pressing the [PLAY MODE] button. Insert a test tape AMS-110A or AMS-RO to Deck A.
14. Press the [SPECTRUM] button to enter the AMS test mode.
15. After a tape is rewound first, the FF AMS is checked, and the mechanism is shut off after detecting the AMS signal twice.
16. Then the REW AMS is checked and the mechanism is shut off after detecting the AMS signal twice.
17. When the check is complete, a message of either OK or NG appears.
18. When you want to exit this mode, press the [] button twice. The cold reset is enforced at the same time.

[Tape Aging Mode]

This mode can be used for operation check of tape deck section. Tape deck section work in parallel.

- If an error occurred:
The aging operation stops and displays then status.
- If no error occurs:
The aging operation continues repeatedly.

Procedure:

1. Load the tapes into the decks A and B respectively.
2. Press the **[CD]** button to select the function "CD".
3. Press the **[PLAY MODE]** button to set the ALL DISCS mode, and press the **[REPEAT]** button to "REPEAT" off.
4. Press three buttons of **[■]**, **[ENTER]**, and **[DISC SKIP/EX-CHANGE]** simultaneously.
5. The aging mode is activated.
6. To exit from the aging mode, press the **[I/⏻]** button to turn the power OFF and operate the cold reset. (Refer to the "MC Cold Reset")

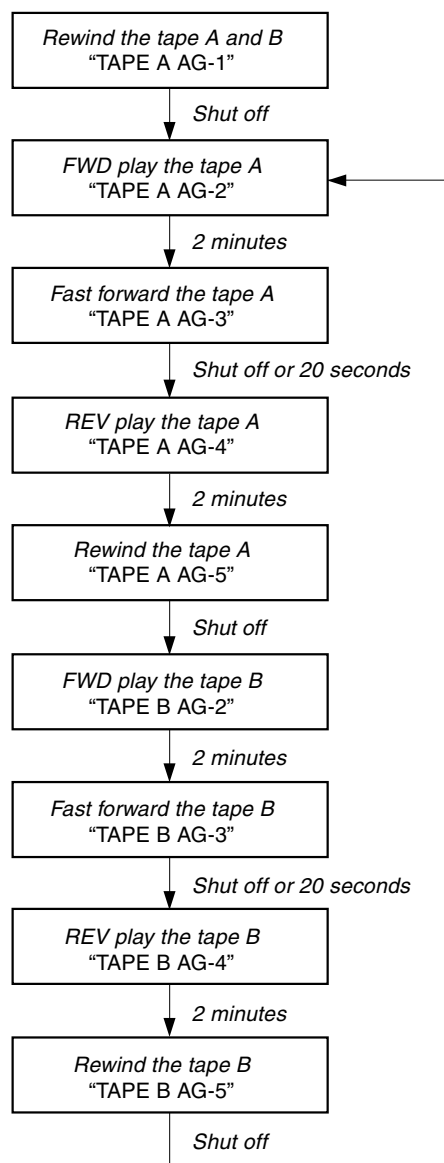
1. Display at the Aging Mode

- Display operating state of tape deck section alternately.
- If an error occurred, stop display.

2. Tape Deck Section

- The sequence during the aging mode is following as below.
- If an error occurred, stop display that step.

Aging mode sequence (Tape deck section) :

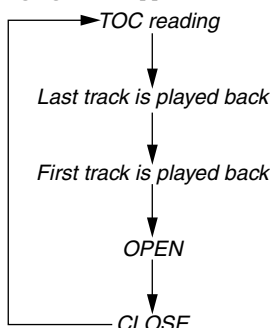


Note: "TAPE * AG-*" is display of each step.

[CD Aging Mode]

Procedure:

1. Short SL501 by soldering.
2. Turn on the main power. Set a disc on the DISC1 tray. Select CD.
3. Press the **[SELECT/◀▶]** button. The aging mode starts.
4. Aging status appears on the monitor screen.



Monitor Display

1st line	OPEN/CLOSE/CD PLAY display
2nd line	DISC1/DISC1-15/DISC1-1/TIME display
4th line	COUNT : 1 display
5th line	TOTAL ERR : 00 display
6th line	JITTER FF display
3rd line	AGING

How to exit the CD aging mode:

1. Press the **[I/⏻]** and turn off the main power.
2. Remove soldering from SL501.

[Function Change Mode]

* elect either VIDEO or MD of the external FUNCTION input.

Procedure:

1. Turn on the power.
2. Press the two buttons **[ENTER]** and **[I/⏻]** at the same time.
The main power is turned on and the other function of the previous function is selected and displayed. "MD" or "VIDEO".

[VIDEO CD Color-bars Mode]

On this mode, the data of the color-bars signal as a picture signal and the 1 kHz sine wave signal as a sound signal are output by the mechanism controller (IC502) for the video CD signal check. When measurement of the voltage and waveform on the VIDEO board, perform it in this mode.

For reference, the color-bars signal can be observed at J302 (VIDEO OUT) using an oscilloscope.

Procedure:

1. Short the both ends of the land of SL503 of the VIDEO board.
2. Turn the power on. Press the **[CD]** button to select CD.
3. The color-bars appears when the CD is in stop status, and it disappears when the CD goes in play status.
4. After measuring, remove the lead wire connected. VIDEO board (SIDE B)

[CD Servo ON/OFF Mode]

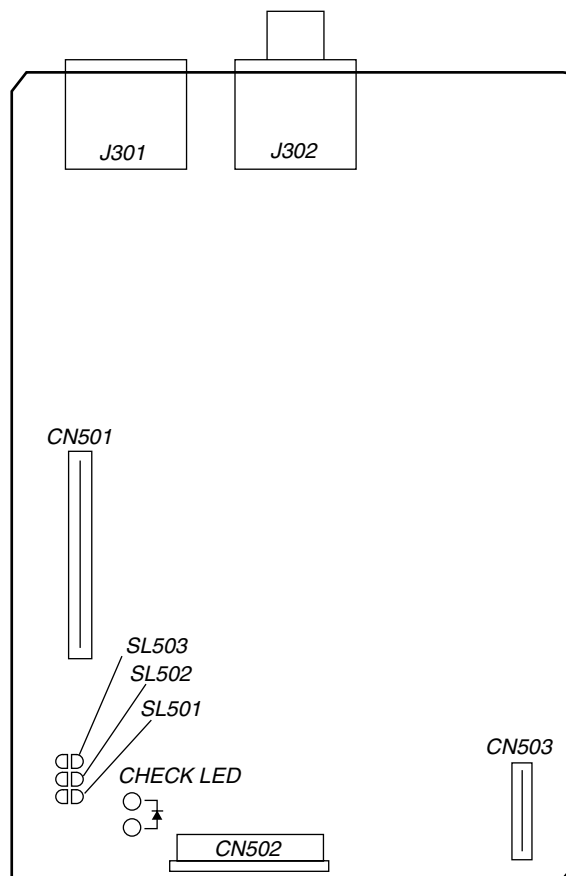
Procedure:

1. Short SL502 on the VIDEO board by soldering.
2. Turn on the main power. Set a disc on the DISC1 tray. Select CD.
3. Press the **[◀▶]** button to play back CD.
4. When the **[▶▶+]** button is pressed, 100 track jump is executed.
5. Also, every pressing of the **[PLAY MODE]** button triggers between ON and OFF of TRACKING SERVO and SLED SERVO.

How to quit the CD servo ON/OFF mode:

1. Press the **[I/⏻]** button to turn off the main power.
2. Remove soldering from SL502.

VIDEO board (SIDE A)



SECTION 5 MECHANICAL ADJUSTMENTS

Precaution

- Clean the following parts with a denatured alcohol-moistened swab:

record/playback heads	pinch rollers
erase head	rubber belts
capstan	idlers
- Demagnetize the record/playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	3.06 N • m to 6.96 N • m 31 to 71 g • cm (0.43 – 0.98 oz • inch)
FWD back tension	CQ-102C	0.19 N • m to 0.58 N • m 2 to 6 g • cm (0.02 – 0.08 oz • inch)
REV	CQ-102RC	3.06 N • m to 6.96 N • m 31 to 71 g • cm (0.43 – 0.98 oz • inch)
REV back tension	CQ-102RC	0.19 N • m to 0.58 N • m 2 to 6 g • cm (0.02 – 0.08 oz • inch)
FF/REW	CQ-201B	6.96 N • m to 14.02 N • m 71 to 143 g • cm (0.98 – 1.99 oz • inch)
FWD tension	CQ-403A	9.80 N • m 100 g or more (3.53 oz or more)
REV tension	CQ-403R	9.80 N • m 100 g or more (3.53 oz or more)

SECTION 6 ELECTRICAL ADJUSTMENTS

DECK SECTION

0 dB=0.775 V

- Demagnetize the record/playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjust.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.
- The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
- The adjustments should be performed for both L-CH and R-CH.
- Switches and controls should be set as follows unless otherwise specified.

• Test Tape

Tape	Signal	Used for
P-4-A100	10 kHz, -10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	Level Adjustment

Record/Playback Head Azimuth Adjustment

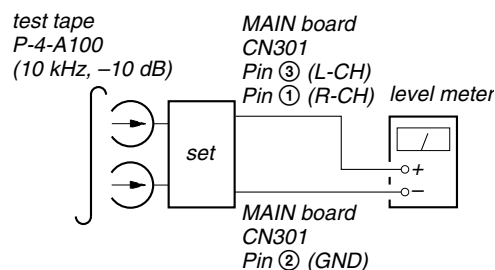
DECK A

DECK B

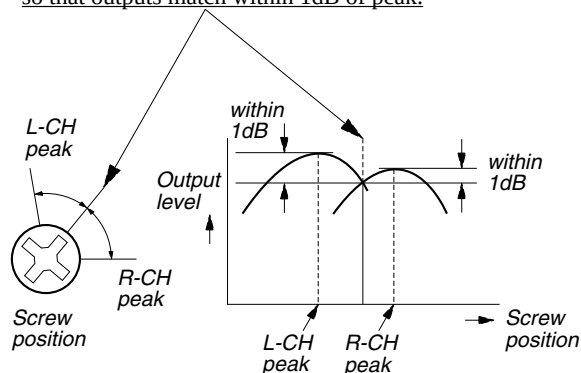
Note: Perform this adjustments for both decks

Procedure:

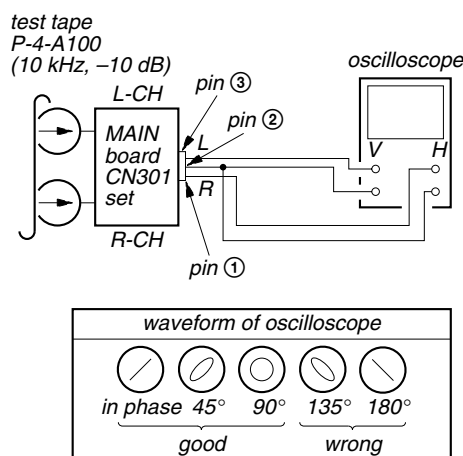
- Mode: Playback



- Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.

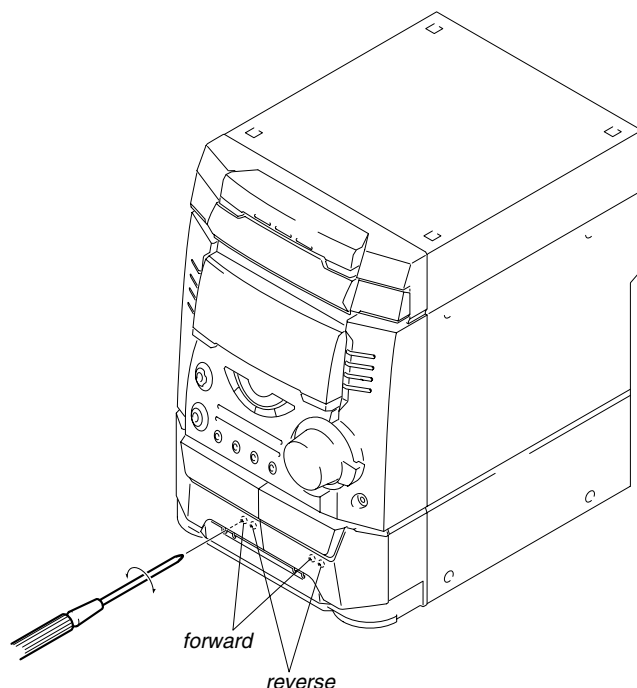


- Mode: Playback



- After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location: Playback Head (Deck A).
Record/Playback/Erase Head (Deck B).



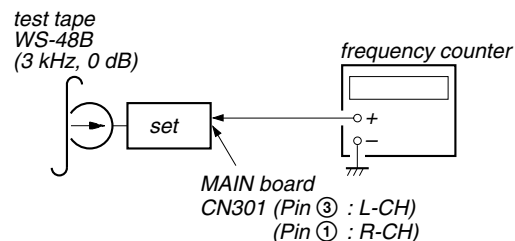
Tape Speed Adjustment **DECK B**

Note: Start the Tape Speed adjustment as below after setting to the test mode.

In the test mode, the tape speed is high during pressing the **CD SYNC HI-DUB** button.

Procedure:

- Turn the power switch on.
 - Press the **■** button, **ENTER** button and **DISC 3** button simultaneously.
(The "TEST MODE" on the fluorescent indicator tube display while in the test mode.)
To exit from the test mode, press the **I/O** button.
- Mode: Playback



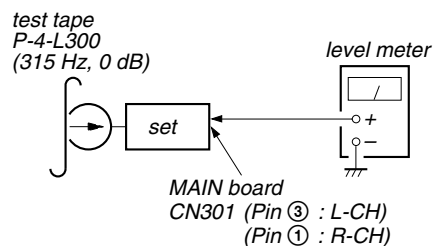
- Insert the WS-48B into the deck B.
- Press the **◀▶** button on the deck B.
- Press the **CD SYNC HI-DUB** button in playback mode.
Then at HIGH speed mode.
- Adjust RV1001 on the LEAF SW board so that frequency counter reads $6,000 \pm 30$ Hz.
- Press the **CD SYNC HI-DUB** button.
Then back to NORMAL speed mode.
- Adjust RV1002 on the LEAF SW board so that frequency counter reads $3,000 \pm 15$ Hz.

Adjustment Location: LEAF SW board

Playback level Adjustment **DECK A** **DECK B**

Procedure:

Mode: Playback



Deck A is RV302 (L-CH) and RV352 (R-CH), Deck B is RV303 (L-CH) and RV353 (R-CH) so that adjustment within adjustment level as follows.

Adjustment Level:

CN301 PB level: 301.5 to 338.3 mV (−8.2 to −7.2 dB) level
difference between the channels: within ± 0.5 dB

Adjustment Location: MAIN board

Sample Value of Wow and Flutter: 0.3% or less W. RMS
(WS-48B)

REC Bias Adjustment **DECK B**

Procedure:

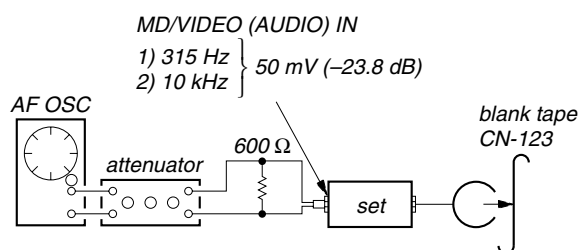
INTRODUCTION

When set to the test mode performed in Tape Speed Adjustment, when the tape is rewound after recording, the "REC memory mode" which rewinds only the recorded portion and playback is set.

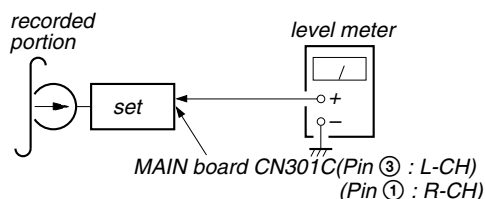
This "REC memory mode" is convenient for performing this adjustment. During recording, the input signal FUNCTION will automatically switch to VIDEO.

(If do not operation of stopped from recording complete, and rotette of shuttle knob then rewind to recording start position.)

1. Press **[MD(VIDEO)]** button to select MD. (This step is not necessary if the above test mode has already been set.)
2. Insert a tape into deck B.
3. After press **[REC PAUSE/START]** button, press **[REC PAUSE/START]** button, then recording start.
4. Mode: Record



5. Mode: Playback



6. Confirm playback the signal recorded in step 3 become adjustable level as follows.
If these levels do not adjustable level, adjustment the RV304 (L-CH) and RV354 (R-CH) on the MAIN board to repeat steps 4 and 5.

Adjustable level: Playback output of 315 Hz to playback output of 10 kHz: ± 1.0 dB

Adjustment Location: MAIN board

REC Level Adjustment **DECK B**

Procedure:

INTRODUCTION

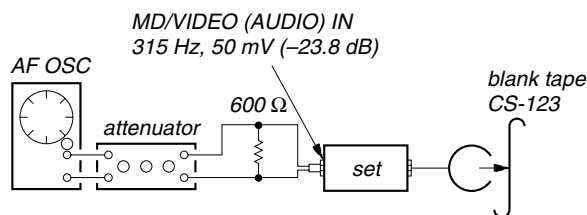
When set to the test mode performed in Tape Speed Adjustment, when the tape is rewound after recording, the "REC memory mode" which rewinds only the recorded portion and playback is set.

This "REC memory mode" is convenient for performing this adjustment. During recording, the input signal FUNCTION will automatically switch to VIDEO.

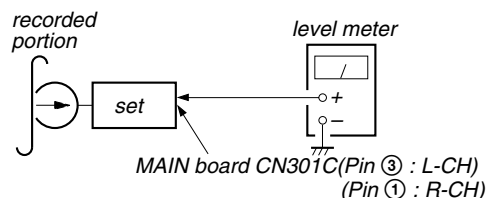
(If do not operation of stopped from recording complete, and rotate of shuttle knob then rewind to recording start position.)

1. Press **[MD(VIDEO)]** button to select MD. (This step is not necessary if the above test mode has already been set.)
2. Insert a tape into deck B.
3. After press **[REC PAUSE/START]** button, press **[REC PAUSE/START]** button, then recording start.

4. Mode: Record



5. Mode: Playback



6. Confirm playback the signal recorded in step 3 become adjustable level as follows.

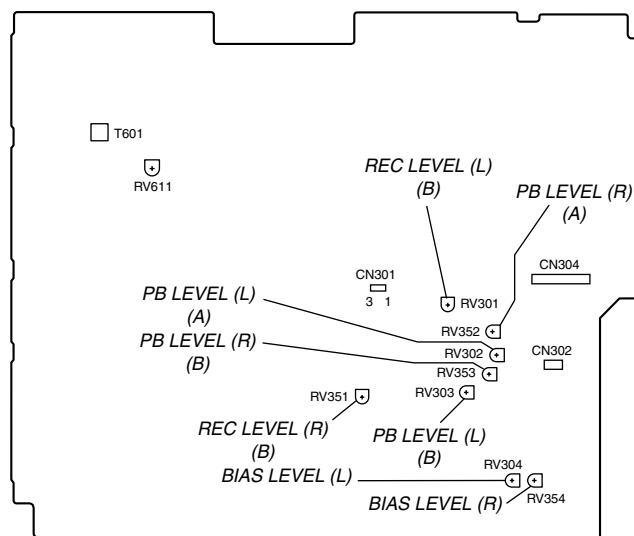
If these levels do not adjustable level, adjustment the RV301 (L-CH) and RV351 (R-CH) on the MAIN board to repeat steps 4 and 5.

Adjustable level:

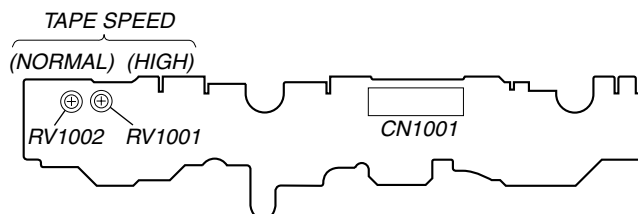
CN301 PB level: 47.2 to 53.0 mV (-24.3 to -23.3 dB)

Adjustment Location: MAIN board

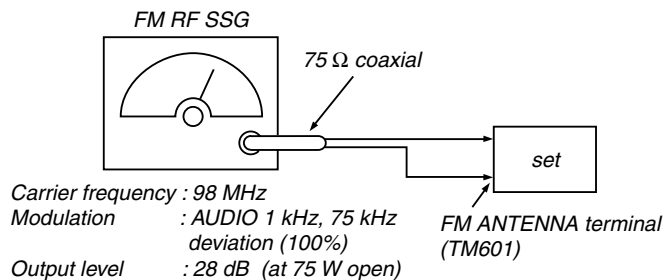
[MAIN BOARD] (Component Side)



[LEAF SW BOARD] (Component Side)



FM Tuned Level Adjustment

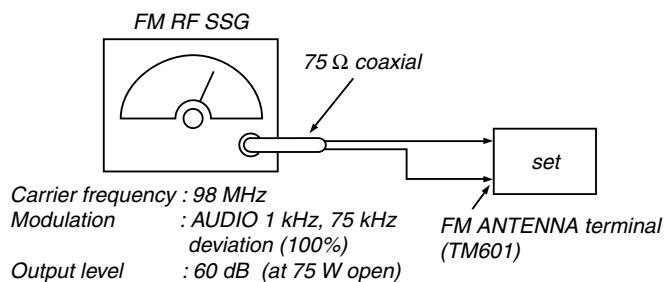


Procedure:

1. Supply a 28 dB 98 MHz signal from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Adjust RV611 to the point (moment) when the TUNED indicator will change from going off to going on.

Adjustment Location: MAIN board

Null Adjustment



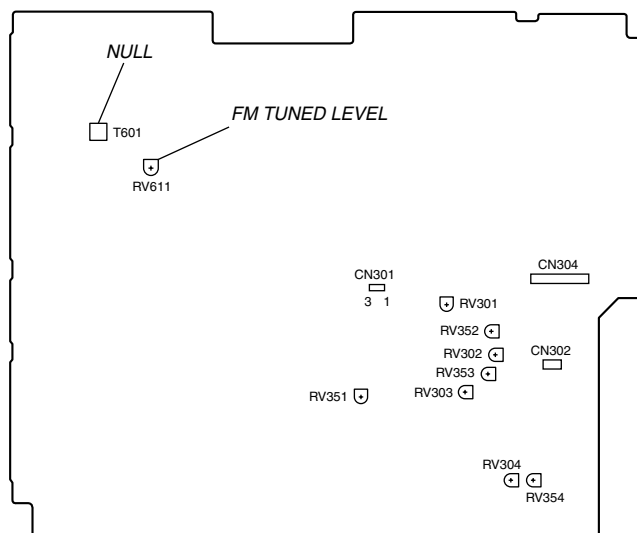
Procedure:

1. Supply a 60 dB 98 MHz signal from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Measure voltage between pin 21 of IC 601. Adjust T601 until the voltage becomes 0 V.

Adjustment Location: MAIN board

Adjustment Location

[MAIN BOARD] Component side

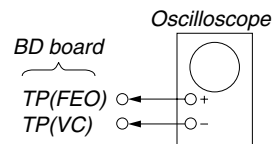


CD SECTION

Note :

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

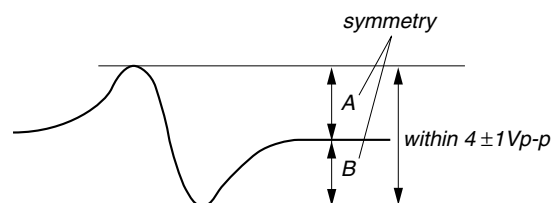
S-Curve Check



Procedure :

1. Connect oscilloscope to TP (FEO).
2. Connect between TP (FEI) and TP (VC) by lead wire.
3. Connect between TP (AGCCONT) and TP (GND) by lead wire.
4. Turn Power switch on.
5. Load a disc (YEDS-18) and actuate the focus search. (In consequence of open and close the disc tray, actuate the focus search)
6. Confirm that the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within $4 \pm 1V_{p-p}$.

S-curve waveform

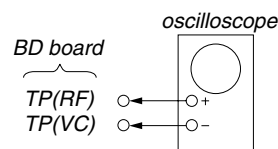


7. After check, remove the lead wire connected in step 2 and 3.

Note :

- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
- Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

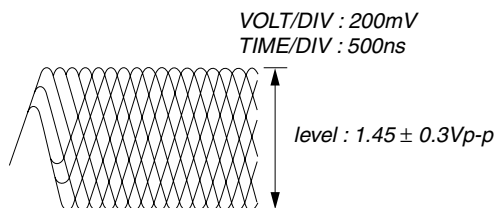


Procedure :

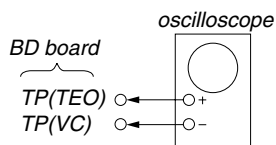
1. Connect oscilloscope to TP (RF).
2. Connect between TP (AGCCONT) and TP (GND) by lead wire.
3. Turned Power switch on.
4. Load a disc (YEDS-18) and playback.
5. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.
6. After check, remove the lead wire connected in step 2.

Note : Clear RF signal waveform means that the shape “◇” can be clearly distinguished at the center of the waveform.

RF signal waveform



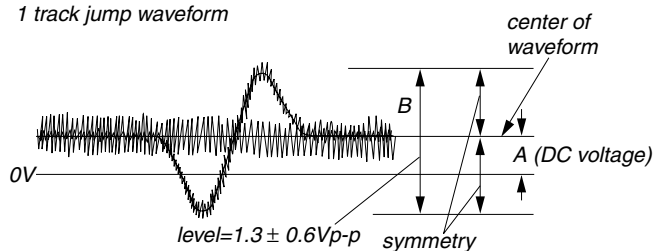
E-F Balance (1 Track jump) Check



Procedure :

1. Connect oscilloscope to TP (TEO) and TP (VC).
2. Turned Power switch on.
3. Load a disc (YEDS-18) and playback the number five track.
4. Press the **II** button. (Becomes the 1 track jump mode.)
5. Confirm that the level B and A (DC voltage) on the oscilloscope waveform.

1 track jump waveform

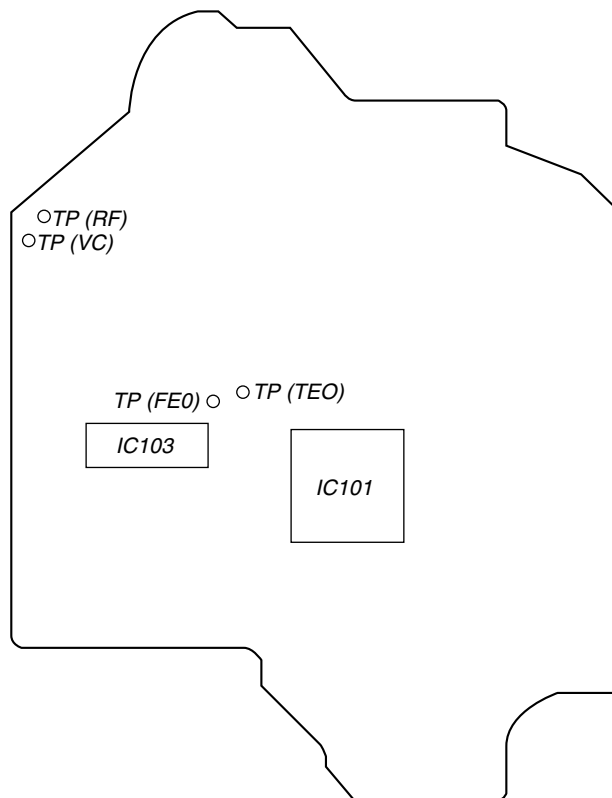


Specified level: $\frac{A}{B} \times 100 = \text{less than } \pm 22\%$

6. After check, remove the lead wire connected in step 1.

Adjustment Location:

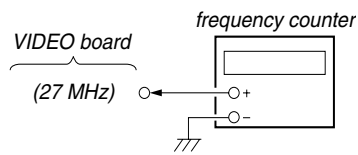
[BD BOARD] (Conductor Side)



VIDEO SECTION

Frequency Adjustment

Connection:

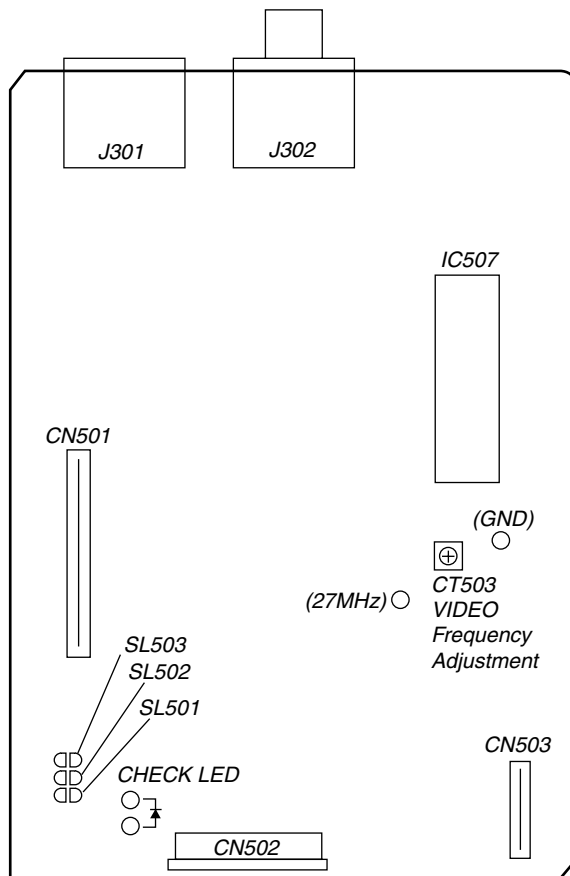


Procedure:

1. Connect the frequency counter to check point of the VIDEO board.
2. Turned power switch on.
3. Press the **[CD]** button to select the CD.
4. Adjust CT503 on the VIDEO board so that the frequency counter reading $27.0 \text{ MHz} \pm 80 \text{ Hz}$ at stop status.

Adjustment Location:

[VIDEO BOARD] (Component Side)



SECTION 7
DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

Note on Schematic Diagram:

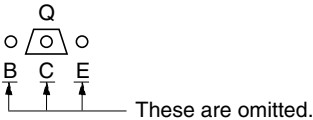
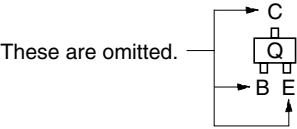
- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$
50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- $\triangle$: internal component.
-  : panel designation.

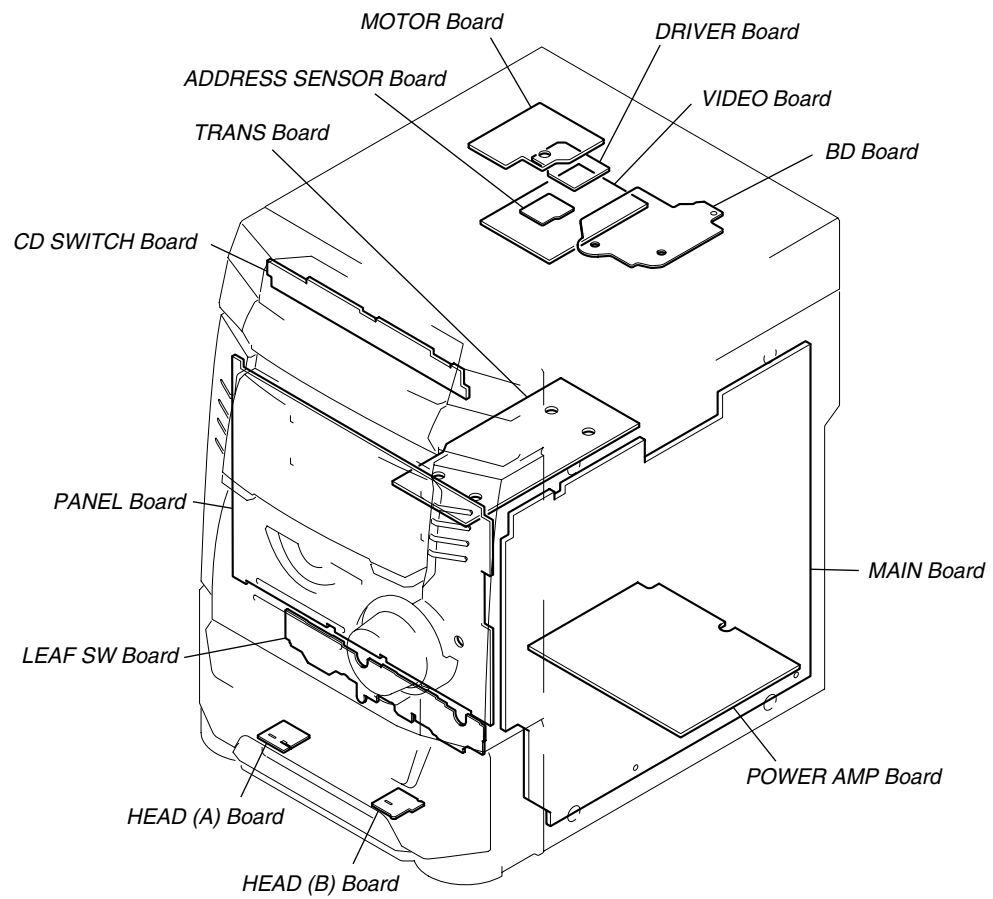
The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety.
Replace only with part number specified.

-  : B+ Line.
-  : B- Line.
-  : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10 $\text{M}\Omega$).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 -  : FM
 -  : AM
 -  : PB (DECK A)
 -  : PB (DECK B)
 -  : REC (DECK B)
 -  : CD
 -  : digital out
- Abbreviation
 - EA : Saudi Arabia model
 - MY : Malaysia model
 - SP : Singapore model
 - TH : Thai model
 - TW : Taiwan model
 - IA : Indonesia model
 - HK : Hong Kong model
 - JE : Tourist model

Note on Printed Wiring Boards:

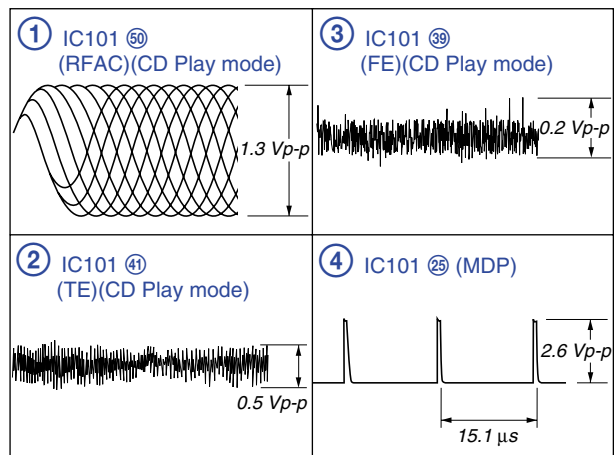
-  : parts extracted from the component side.
-  : Pattern from the side which enables seeing.
- Indication of transistor.



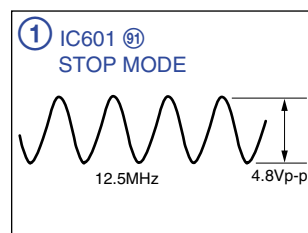
7-1. CIRCUIT BOARD LOCATION

• WAVEFORMS

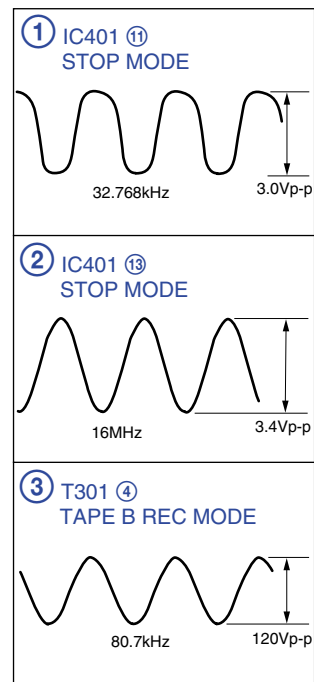
– BD BOARD –



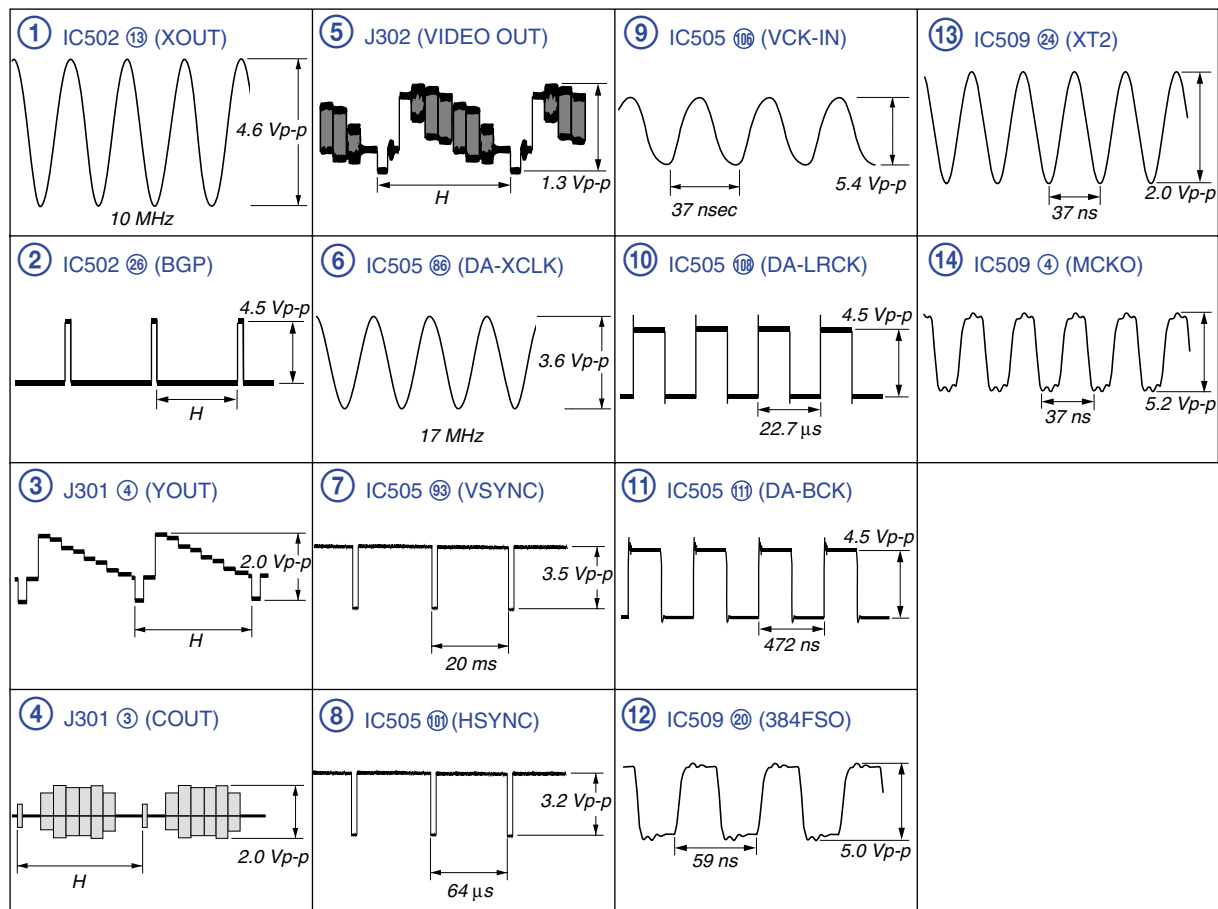
– PANEL BOARD –



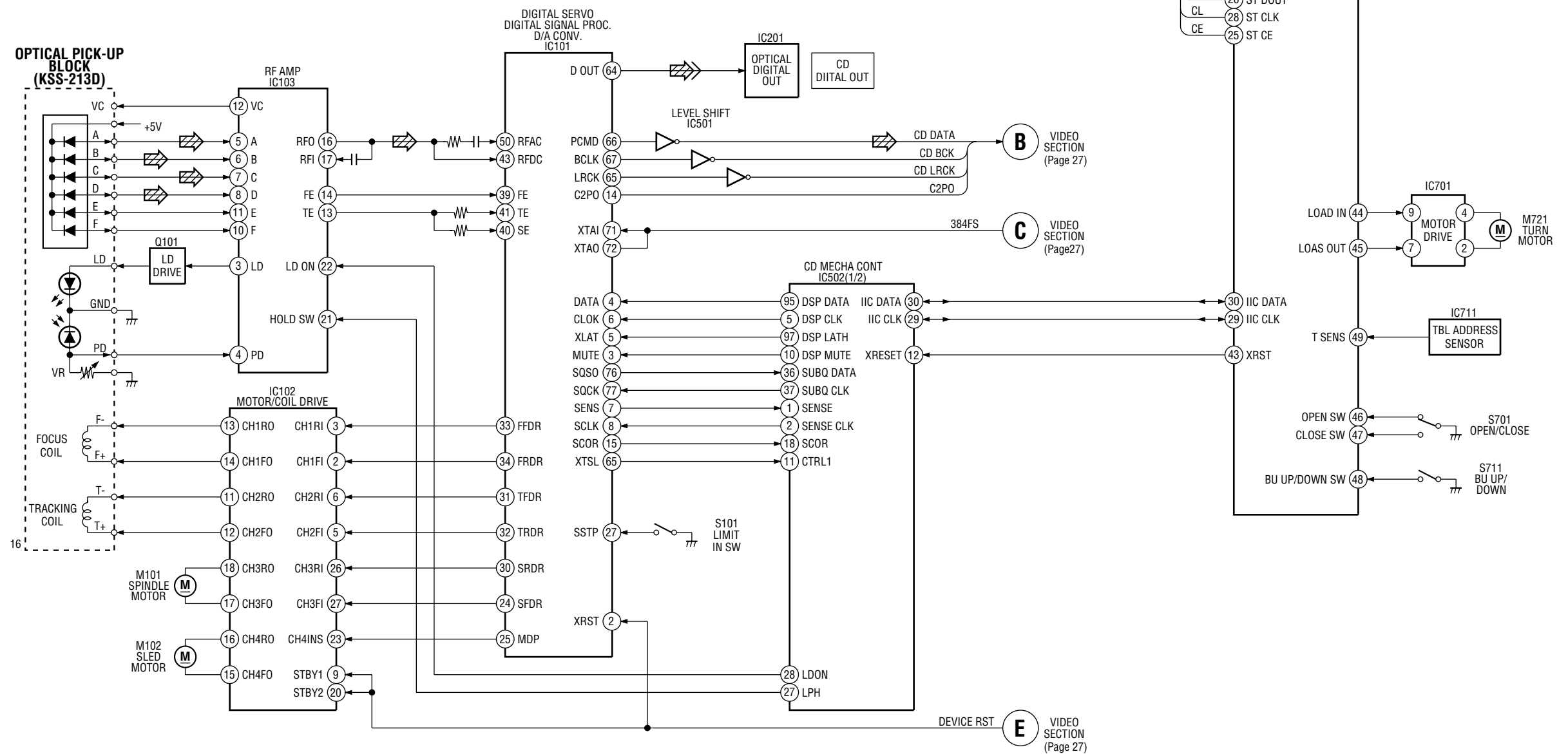
– MAIN BOARD –



– VIDEO BOARD –



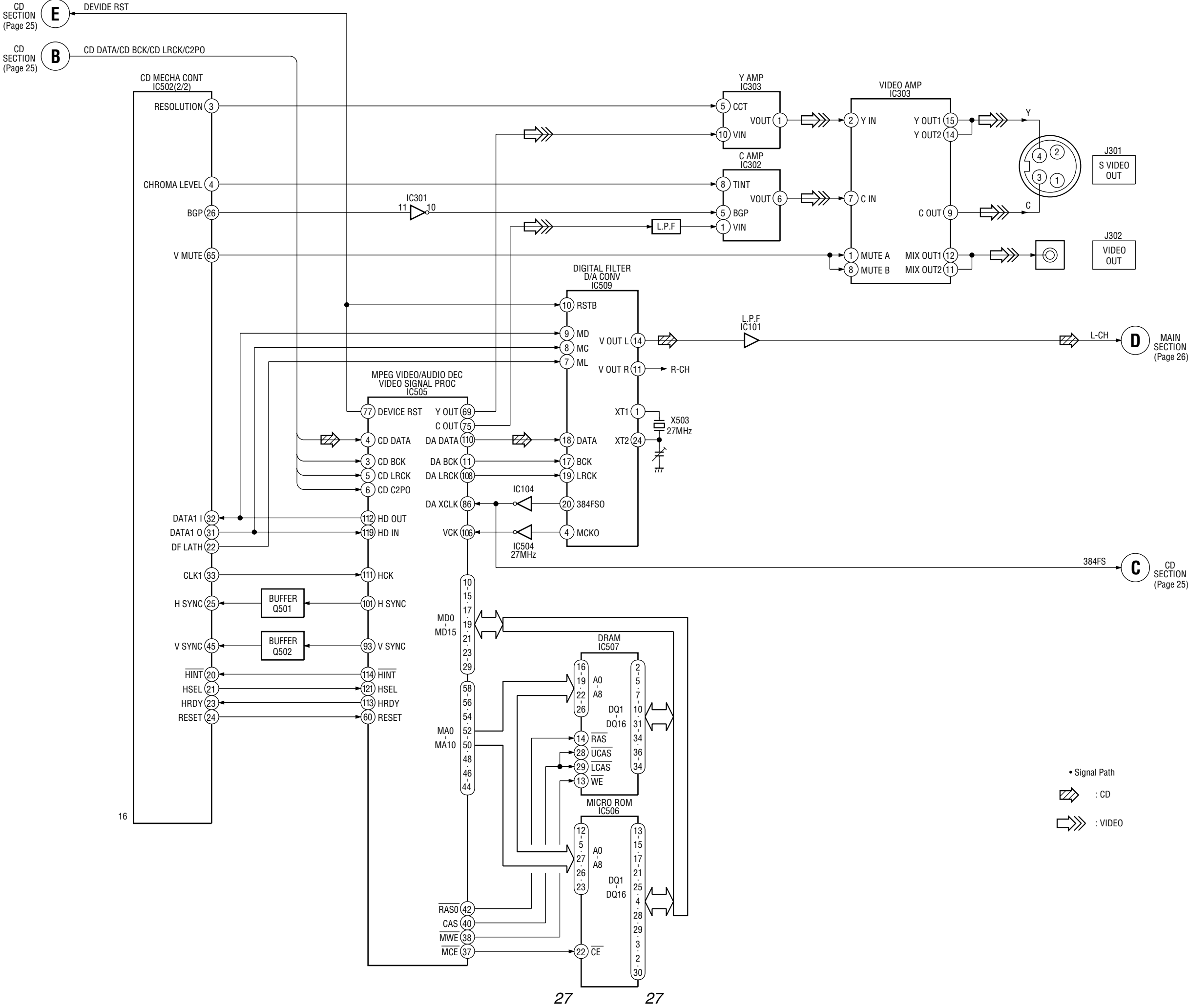
The schematic diagram illustrates the radio section of a car stereo. It begins with an antenna input (FM 75Ω, G, AM) connected to a transformer (TM601). The signal is then processed by two ICs: FE601 (EXCEPT JE MODEL) and FE602 (JE MODEL). The output of FE602 is connected to a PLL IC651, which provides a 4.5MHz reference (X651) and a 4.5MHz output (XOUT). The PLL IC651 also provides a 4.5MHz reference (X651) and a 4.5MHz output (XOUT). The output of the PLL IC651 is connected to the AM/FM IF MPX IC601. The AM/FM IF MPX IC601 provides a 4.5MHz reference (X651) and a 4.5MHz output (XOUT). The output of the AM/FM IF MPX IC601 is connected to a buffer (Q611) and a low-pass filter (LPF601). The output of the LPF601 is connected to the main section (A). The diagram also shows a variable capacitor (RV611) connected to the AM MIX OUT (19) of the AM/FM IF MPX IC601. The output of the AM/FM IF MPX IC601 is connected to the main section (A). The diagram also shows a variable capacitor (RV611) connected to the AM MIX OUT (19) of the AM/FM IF MPX IC601. The output of the AM/FM IF MPX IC601 is connected to the main section (A). The diagram also shows a variable capacitor (RV611) connected to the AM MIX OUT (19) of the AM/FM IF MPX IC601. The output of the AM/FM IF MPX IC601 is connected to the main section (A).



MAIN SECTION

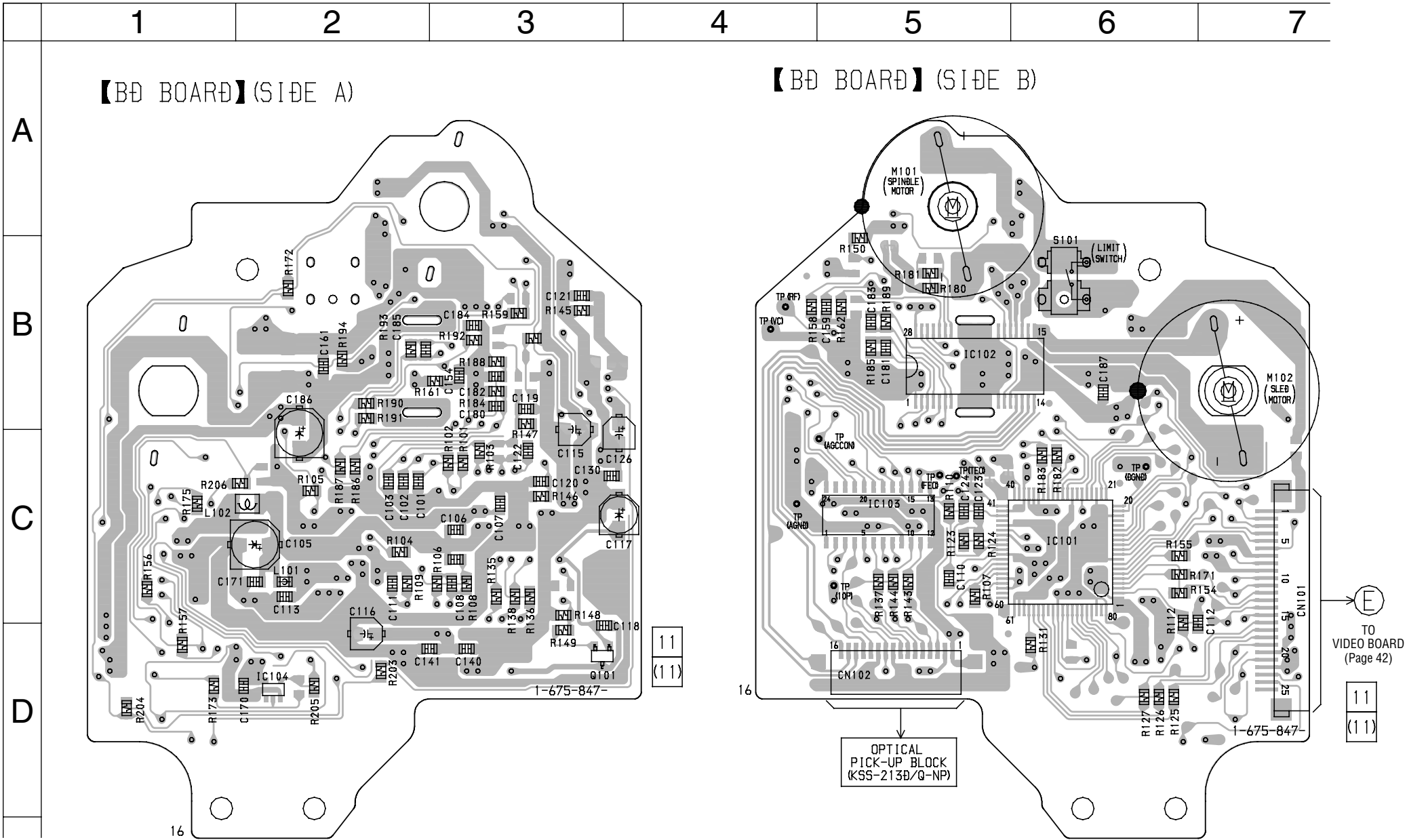


VIDEO CD SECTION



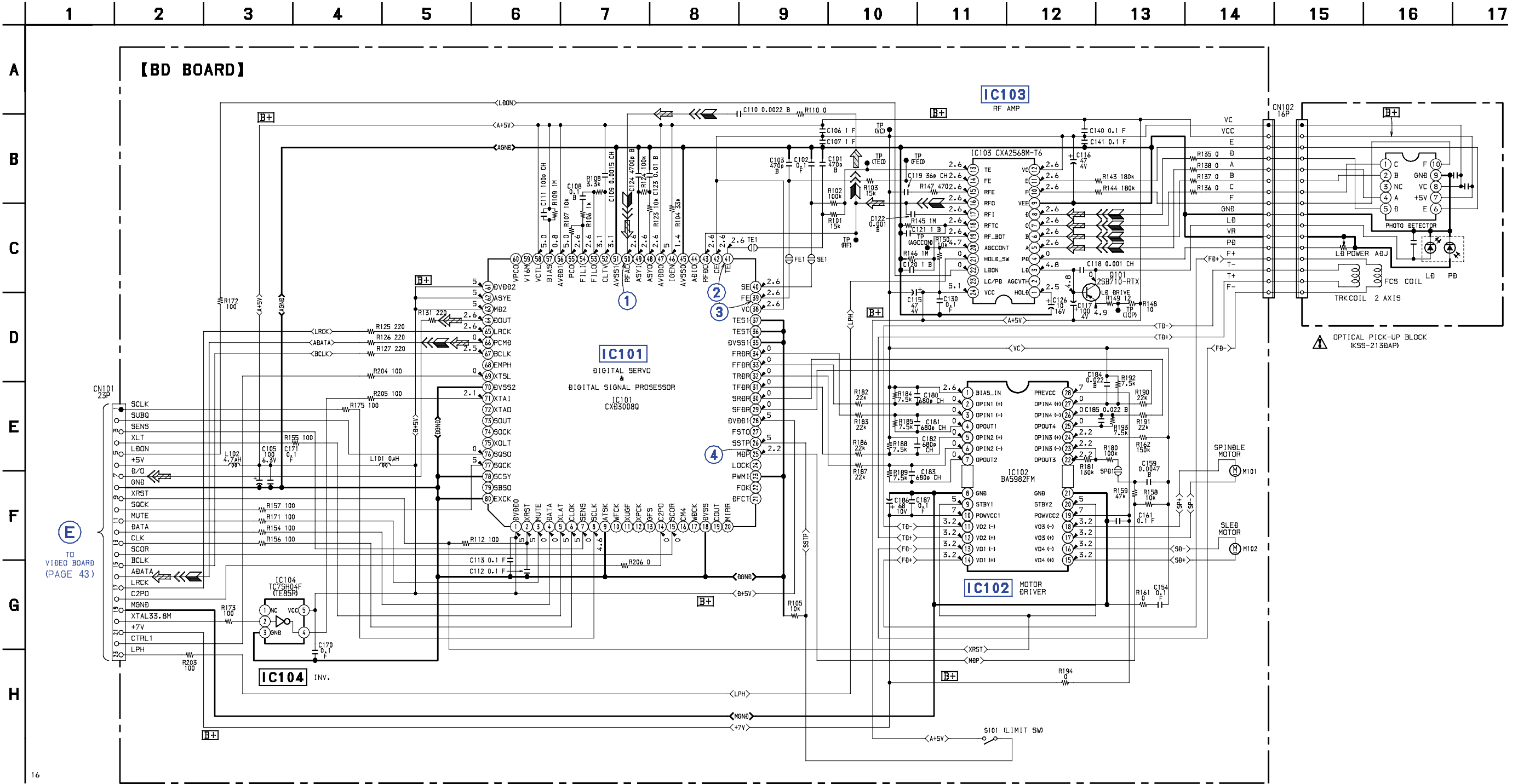
• Semiconductor Location

Ref. No.	Location
IC101	C-6
IC102	B-5
IC103	C-5
IC104	D-2
Q101	D-3



7-4. SCHEMATIC DIAGRAM BD SECTION

- See page 24 for Waveforms.
- See page 50 for IC Block Diagrams.

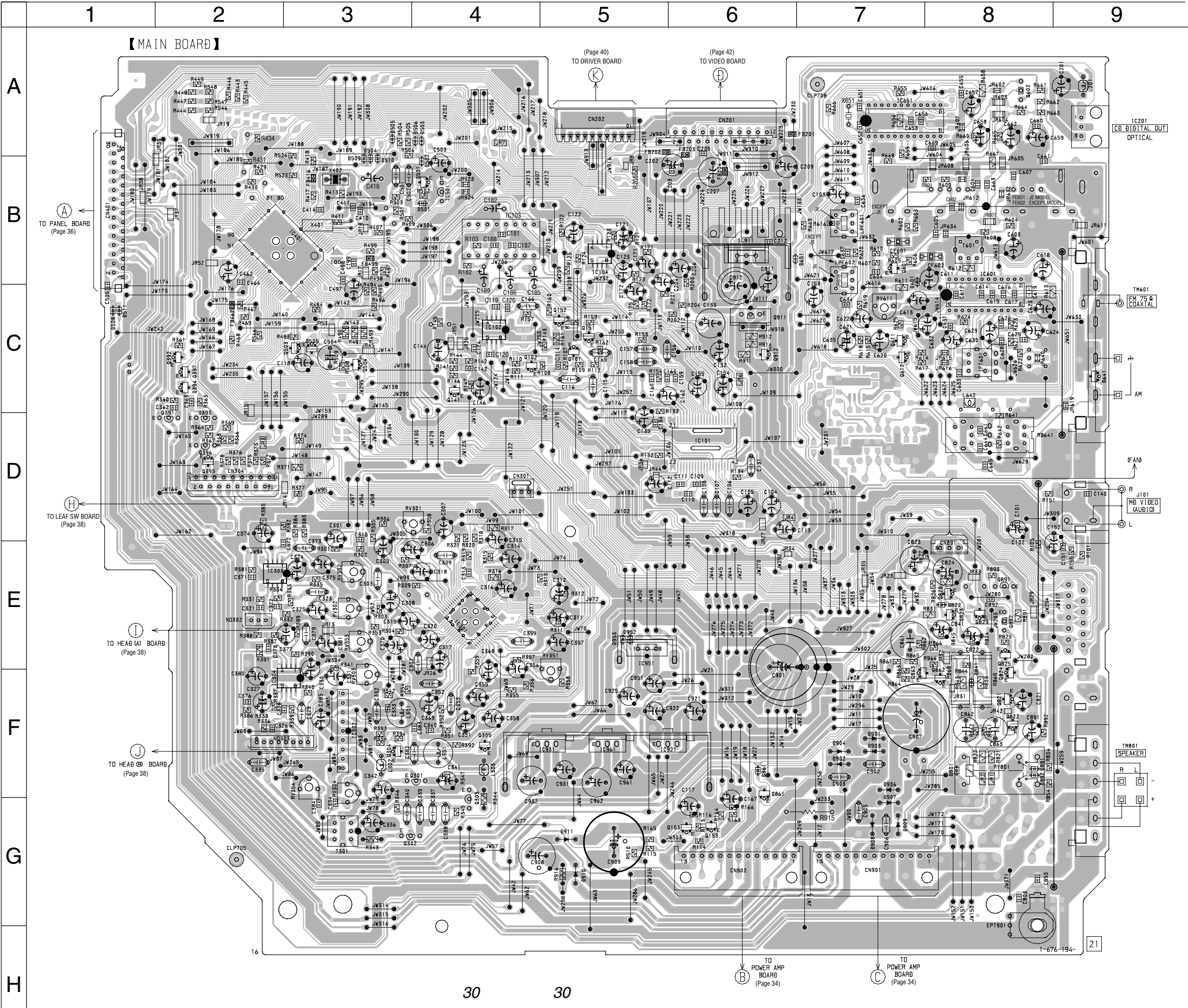


The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

7-5. PRINTED WIRING BOARD MAIN SECTION • See page page 23 for Circuit Boards Location.

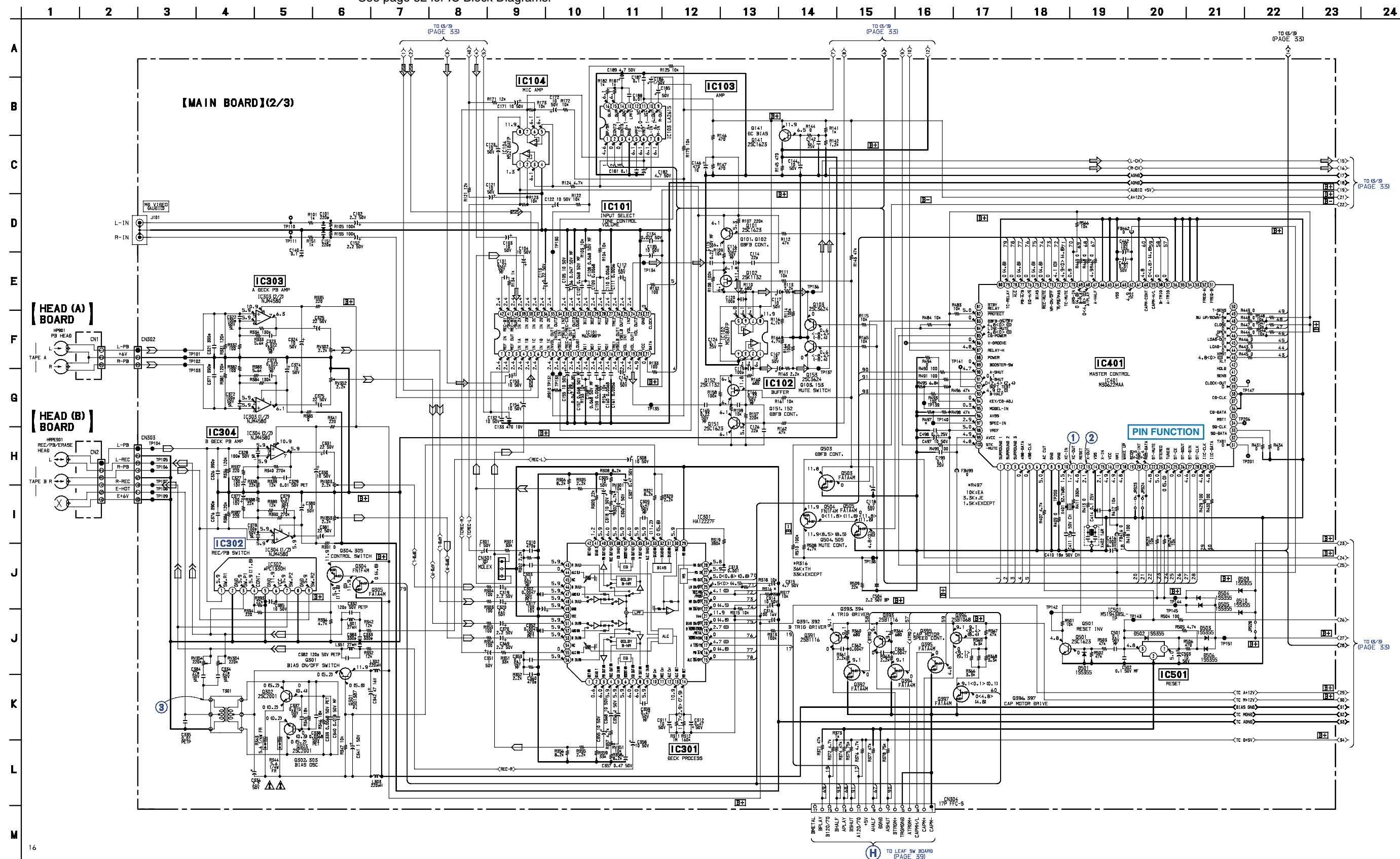
• Semiconductor Location

Ref. No.	Location
D501	B-3
D502	B-4
D503	A-4
D504	B-3
D505	A-3
D506	A-4
D508	C-1
D509	B-3
D510	B-3
D511	C-1
D601	B-7
D641	C-9
D651	B-7
D681	C-7
D801	F-8
D822	E-8
D861	F-6
D891	F-8
D892	F-8
D901	F-7
D902	F-7
D903	F-7
D904	F-7
D906	G-7
D907	G-7
D908	G-7
D909	G-7
D910	G-5
D911	G-5
D952	E-5
D953	E-5
D957	
IC101	D-6
IC102	C-4
IC103	B-4
IC104	B-5
IC301	E-4
IC302	F-3
IC303	E-2
IC304	F-3
IC401	B-3
IC501	B-4
IC601	C-8
IC651	A-7
IC911	B-6
IC951	E-5
IC961	F-6
Q101	C-5
Q102	C-4
Q103	G-6
Q141	C-4
Q151	C-5
Q152	C-5
Q153	G-6
Q301	G-4
Q302	G-3
Q303	G-4
Q304	F-3
Q305	F-4
Q391	D-2
Q392	D-2
Q393	D-2
Q394	C-2
Q395	D-2
Q396	D-2
Q397	C-2
Q501	B-4
Q503	C-3
Q504	C-3
Q505	C-3
Q601	B-7
Q602	A-8
Q611	C-7
Q612	C-7
Q821	F-8
Q822	F-8
Q823	E-8
Q824	E-8
Q825	E-8
Q828	E-8
Q829	E-8
Q861	F-6
Q862	F-8
Q863	E-7
Q891	E-8
Q892	E-8
Q911	C-6
Q912	C-6

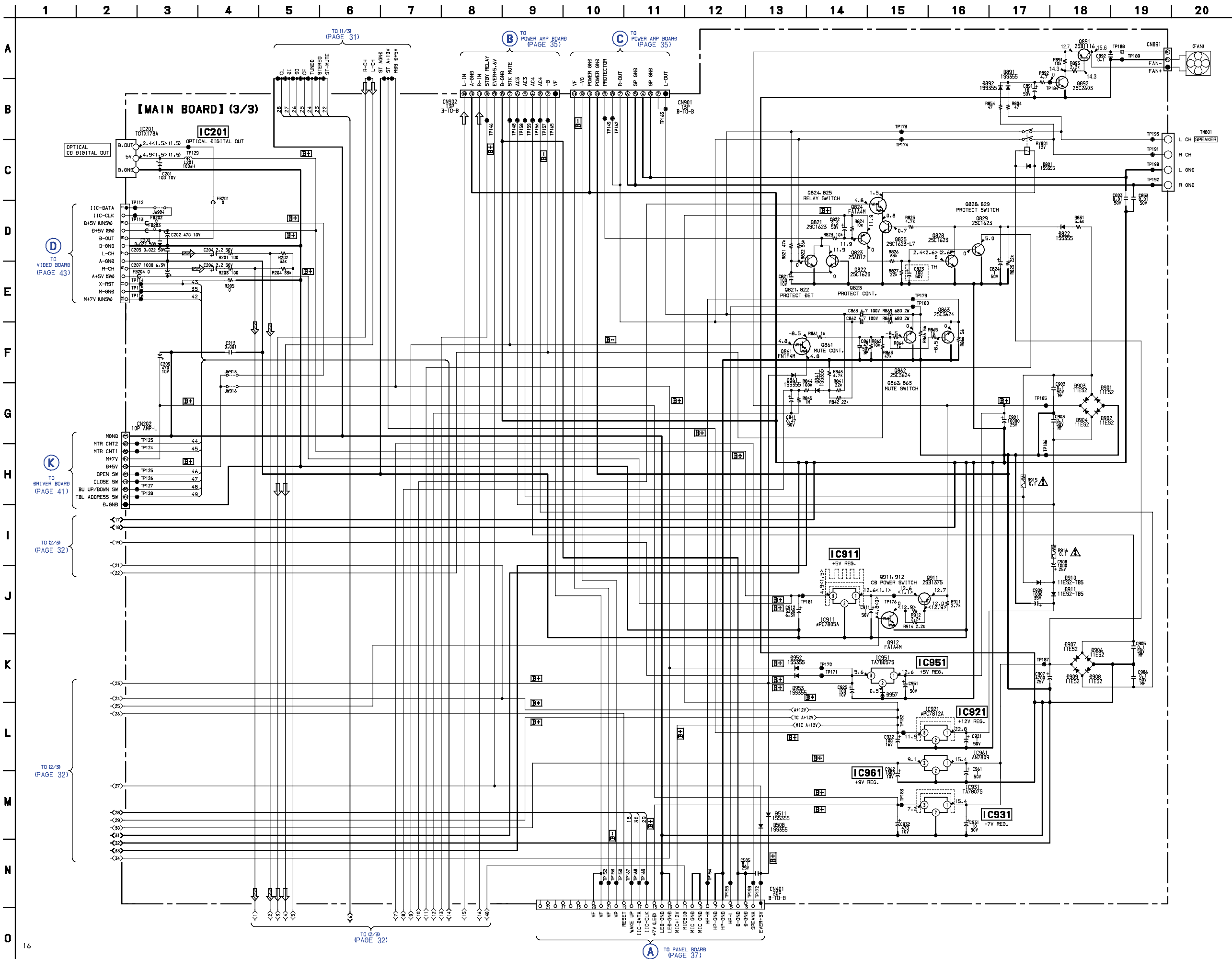




- See page 24 for Waveforms.
- See page 46 for IC Pin Function Description.
- See page 52 for IC Block Diagrams.

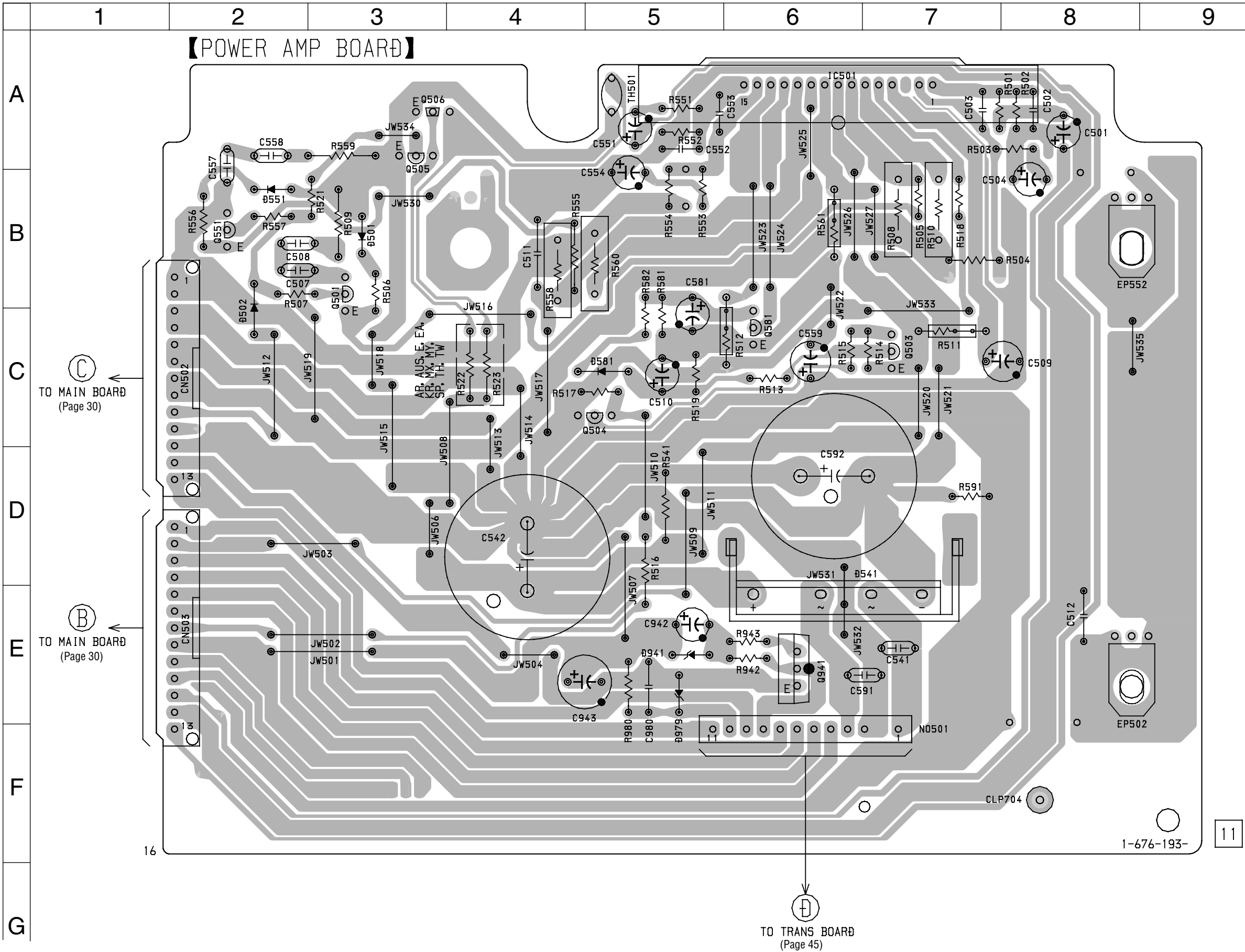


7-8. SCHEMATIC DIAGRAM MAIN SECTION (3/3)

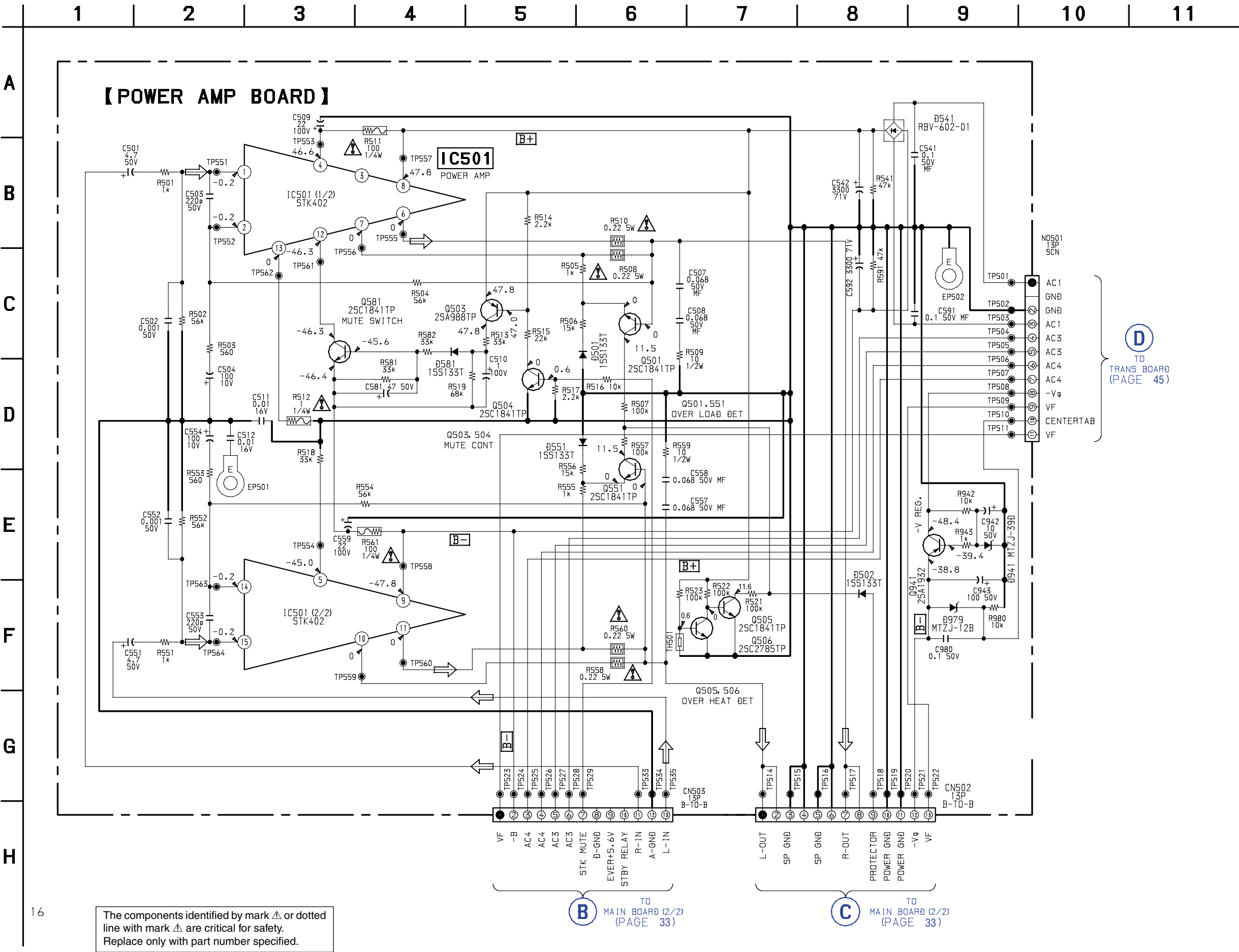


• Semiconductor Location

Ref. No.	Location
D501	B-3
D502	C-2
D541	D-6
D551	B-2
D581	C-5
D941	E-5
D979	E-5
IC501	A-6
Q501	B-3
Q503	B-7
Q504	C-5
Q505	A-3
Q506	A-3
Q551	B-2
Q581	C-6
Q941	E-6



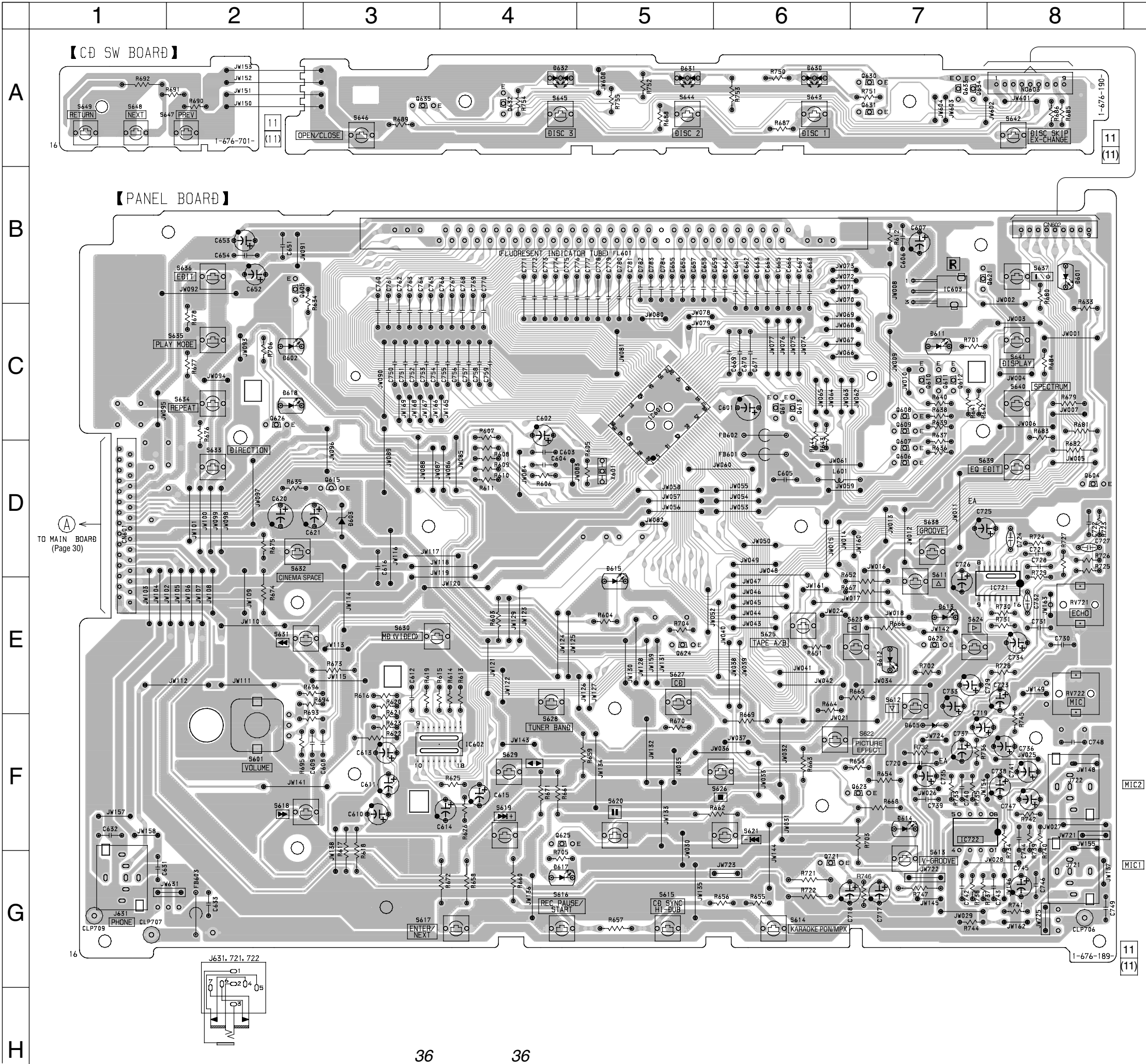
7-10. SCHEMATIC DIAGRAM POWER AMP SECTION



7-11. PRINTED WIRING BOARD PANEL SECTION • See page page 23 for Circuit Boards Location.

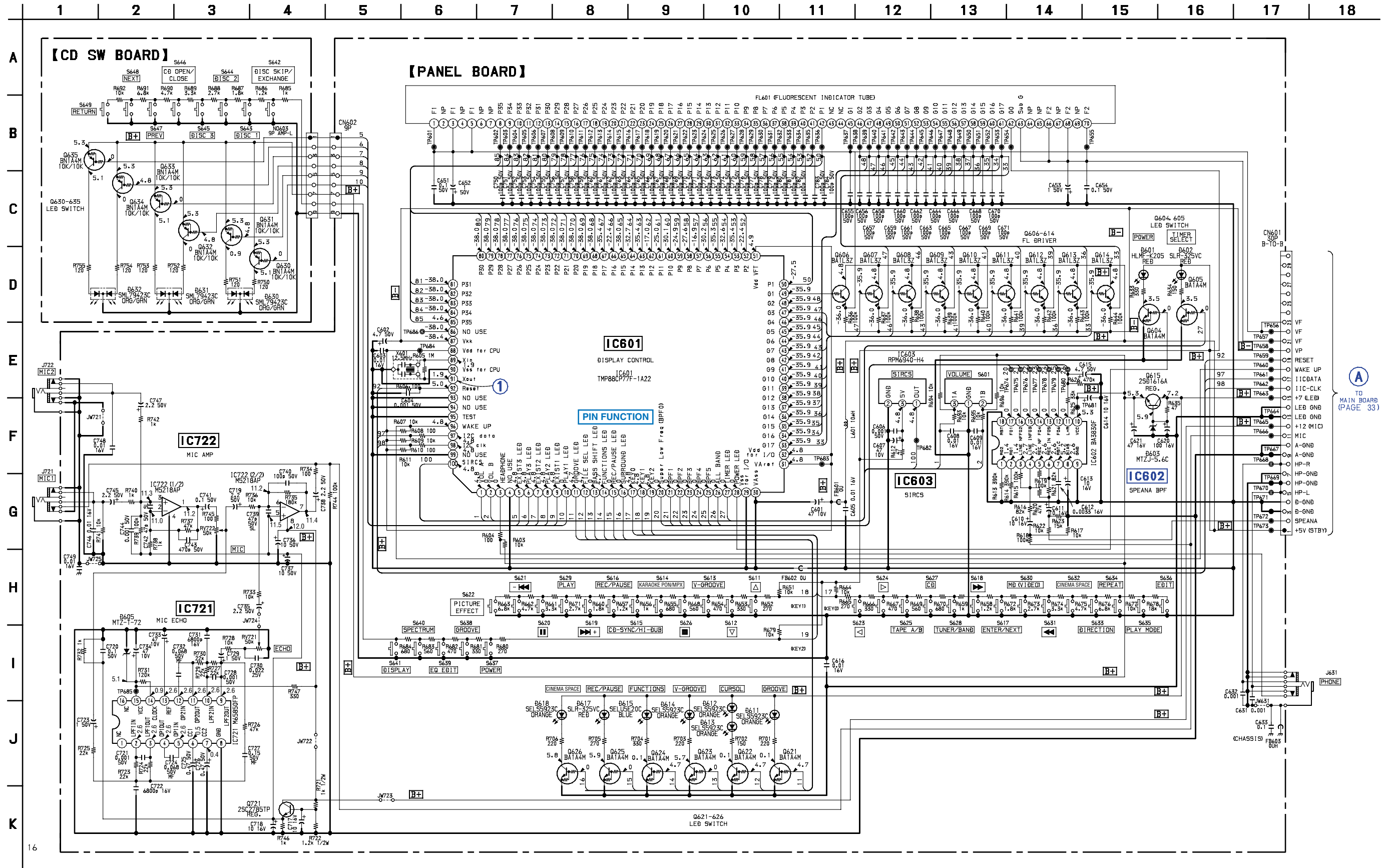
• Semiconductor Location

Ref. No.	Location
D601	B-8
D602	C-2
D603	D-3
D611	C-7
D612	E-7
D613	E-7
D614	F-7
D615	D-5
D617	G-4
D618	C-2
D630	A-6
D631	A-5
D632	A-4
IC601	C-5
IC602	F-4
IC603	B-7
IC721	E-8
IC722	F-8
Q604	D-8
Q605	B-2
Q606	D-7
Q607	D-7
Q608	C-7
Q609	C-7
Q610	C-7
Q611	C-7
Q612	C-7
Q613	C-6
Q614	C-6
Q615	D-3
Q621	B-7
Q622	E-7
Q623	F-7
Q624	E-5
Q625	F-4
Q626	C-2
Q630	A-7
Q631	A-7
Q632	A-4
Q633	A-7
Q634	A-7
Q635	A-3
Q721	G-6

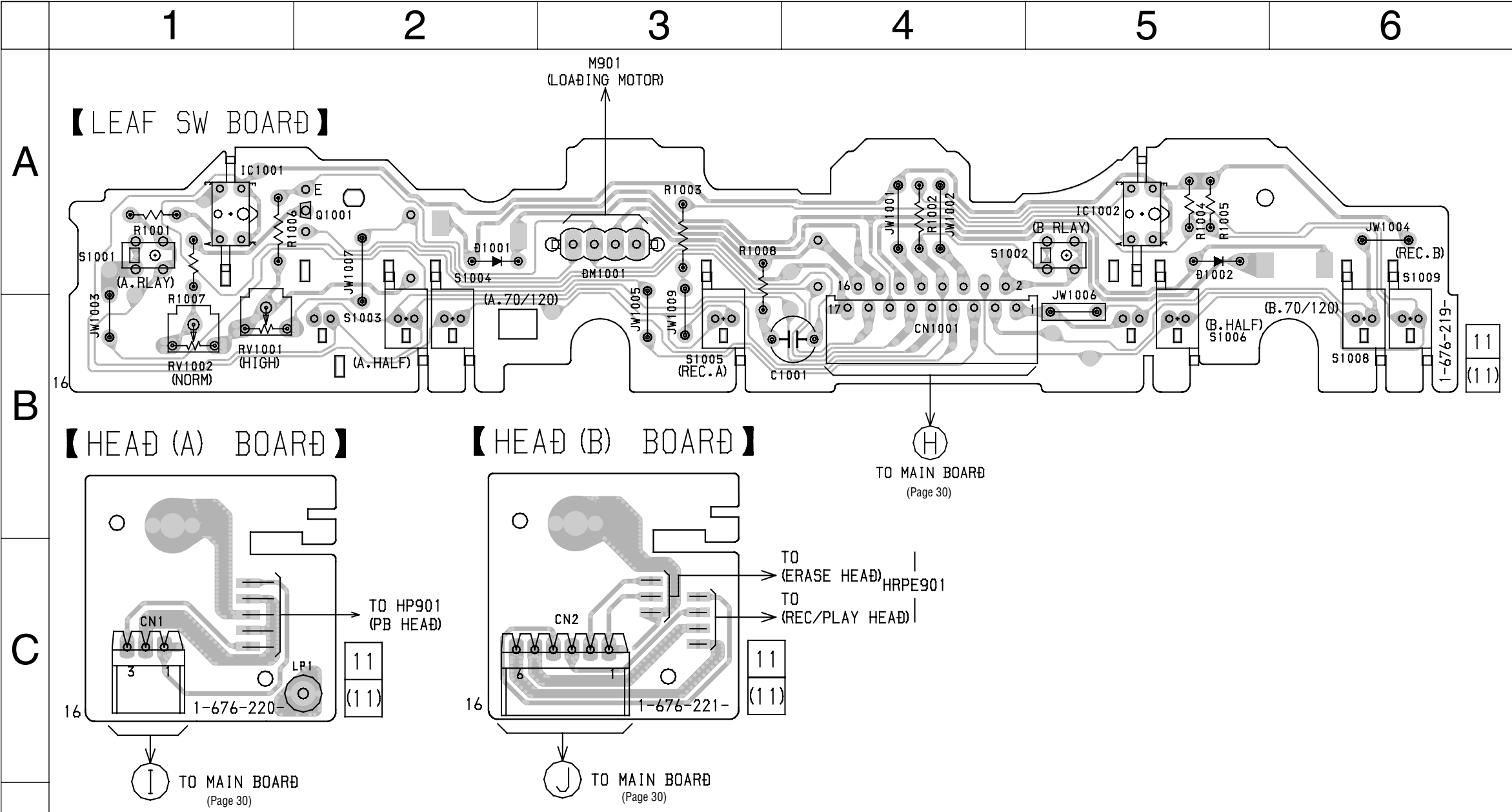


7-12. SCHEMATIC DIAGRAM PANEL SECTION

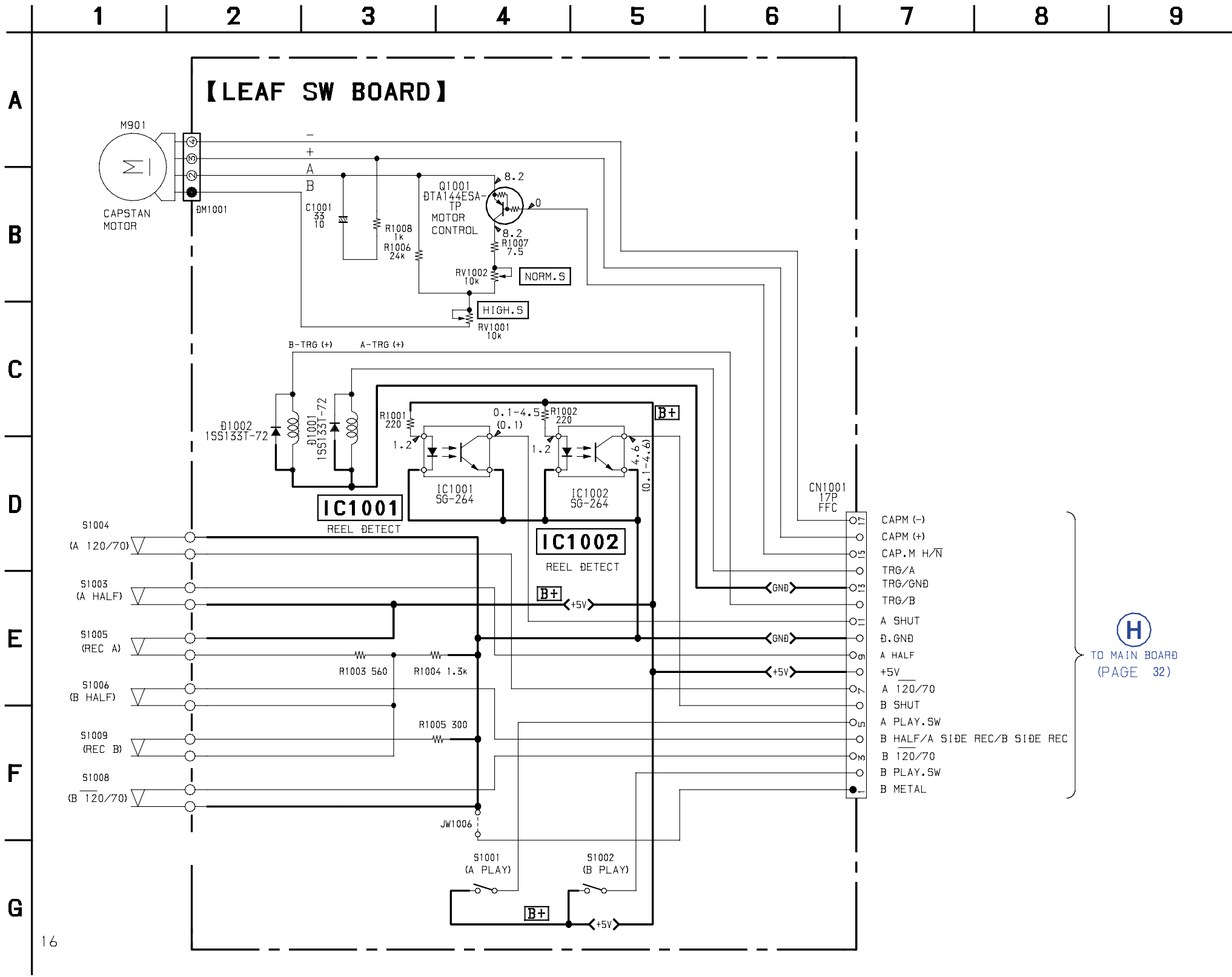
- See page 23 for Waveforms.
- See page 47 for IC Pin Function Description.



Ref. No.	Location
D1001	A-2
D1002	A-5
IC1001	A-1
IC1002	A-5
Q1001	A-2

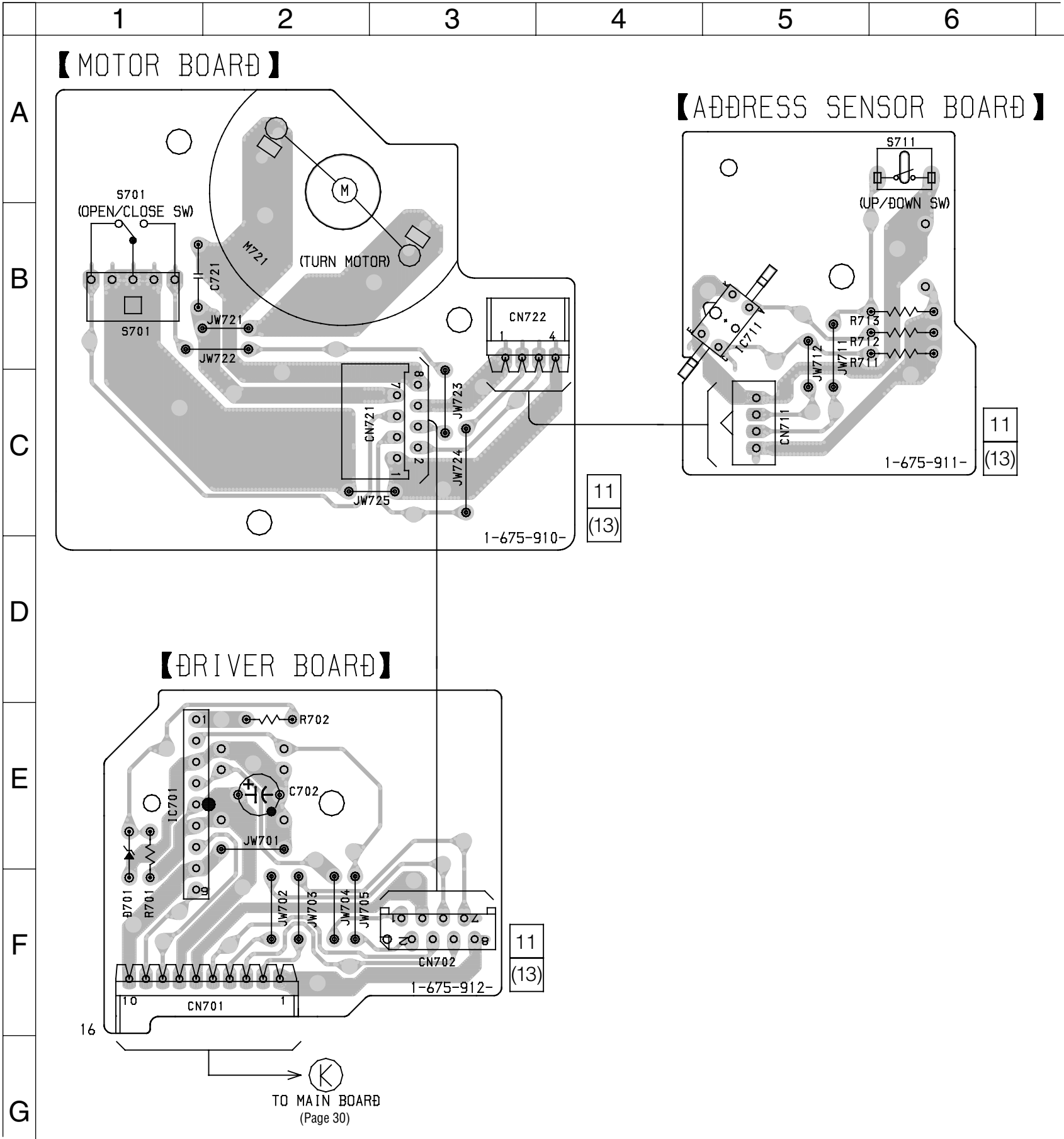


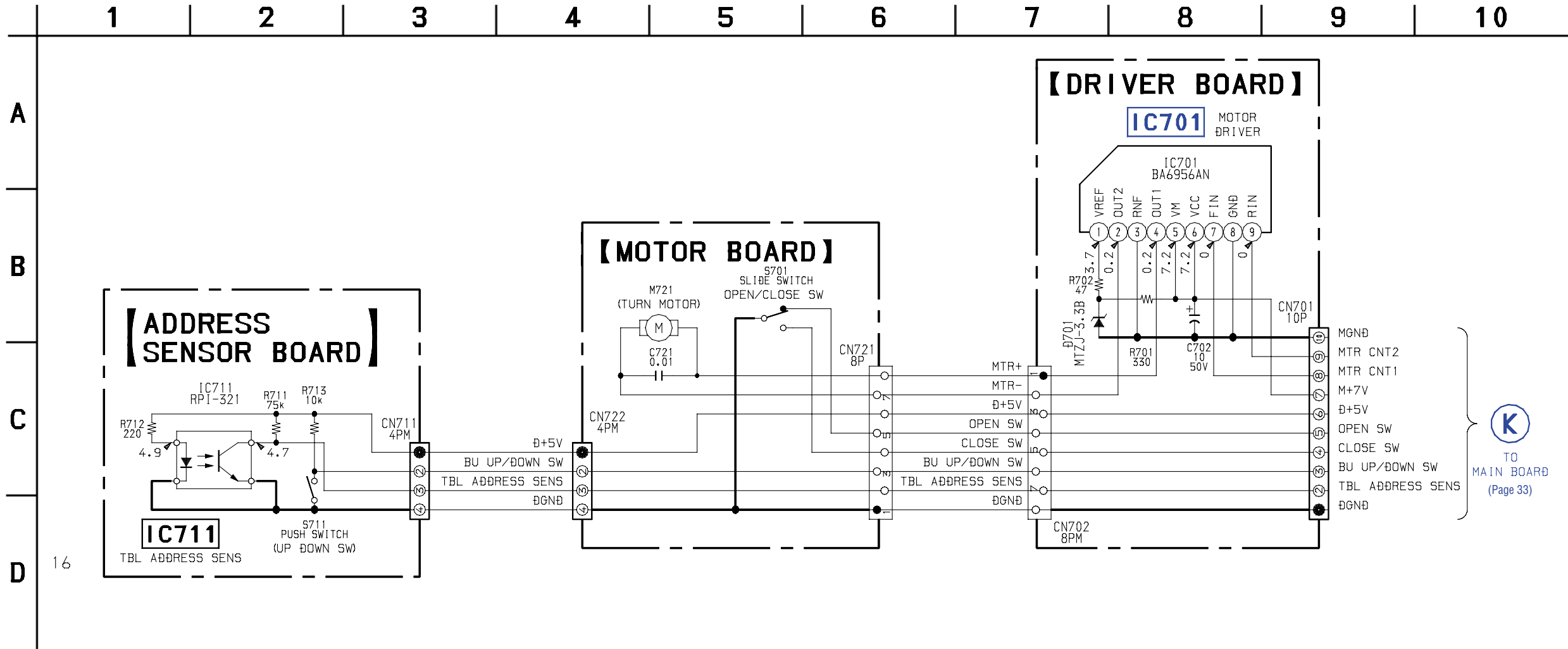
7-14. SCHEMATIC DIAGRAM LEAF SW SECTION



• Semiconductor Location

Ref. No.	Location
D701	E-1
IC701	E-1
IC711	B-5

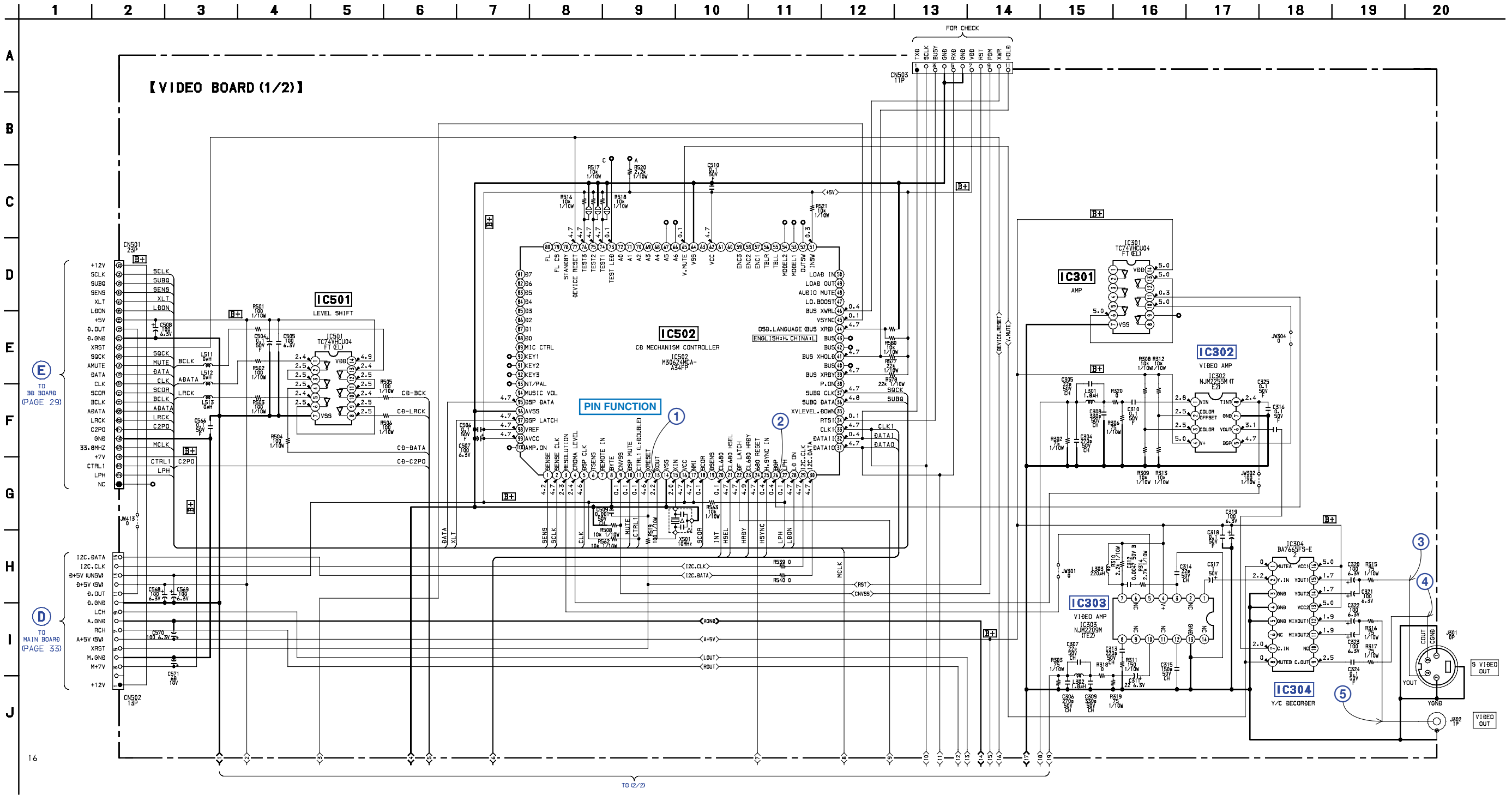




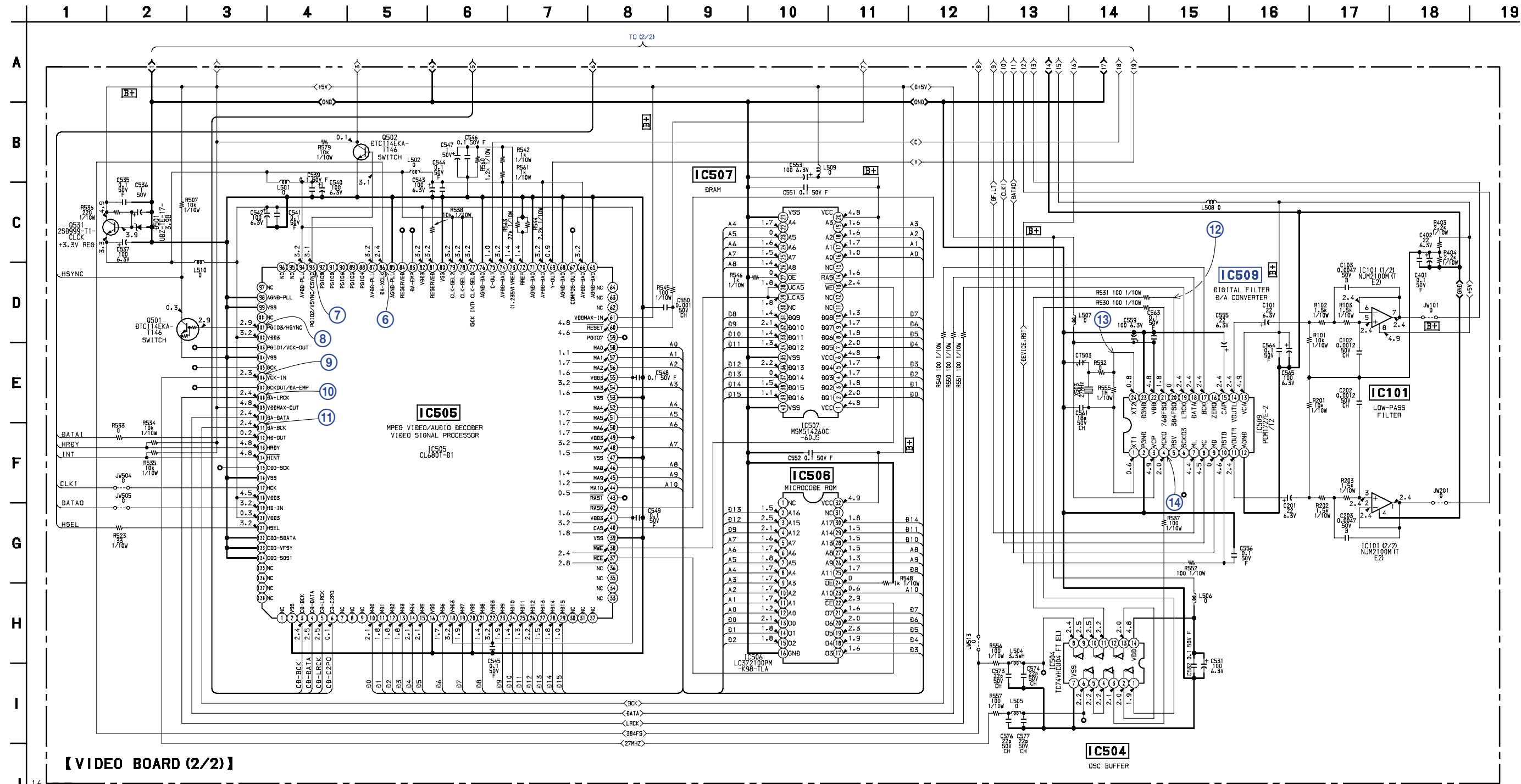


7-18. SCHEMATIC DIAGRAM VIDEO CD SECTION (1/2)

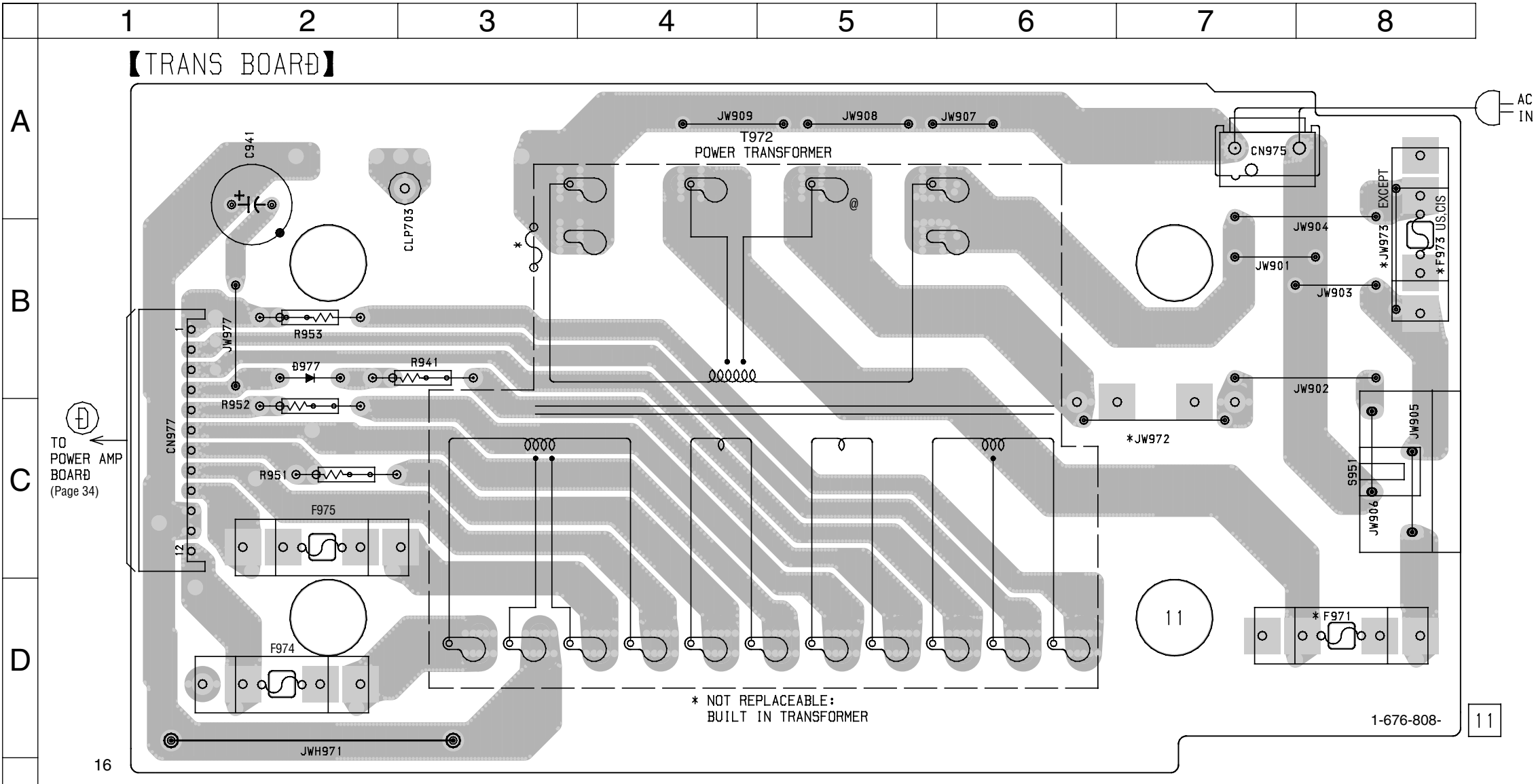
- See page 24 for Waveforms.
- See page 48 for IC Pin Function Description.
- See page 53 for IC Block Diagrams.



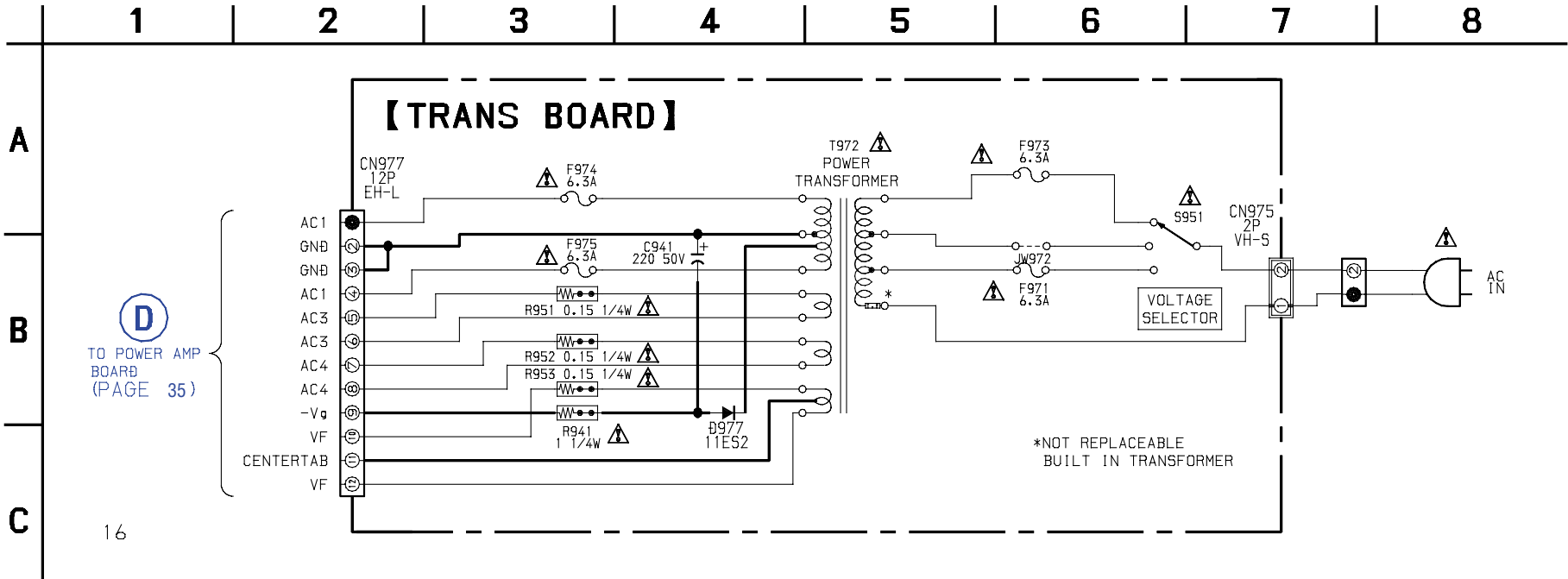
- See page 24 for Waveforms.
- See page 48 for IC Pin Function Description.
- See page 53 for IC Block Diagrams.



7-20. PRINTED WIRING BOARD POWER SECTION • See page 23 for Circuit Boards Location.



7-11. SCHEMATIC DIAGRAM POWER SECTION



7-21. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC401 M30622MAA-A60 (MASTER CONTROL)

Pin No.	Pin Name	I/O	Description
1	SURROUND 1	O	Not used.
2	SURROUND 2	O	Not used.
3	SURROUND 3	O	Not used.
4	498-DATA	O	Data signal output for IC101 (M61504FP)
5	498-CLK	O	Clock signal output for IC101 (M61504FP)
6	N.C	I	Not used.
7	AC-CUT	I	AC CUT ON (L) / OFF (H) CHECK
8	GND	—	Connected to ground.
9	GND	—	Connected to ground.
10	XC IN	I	SUB CLOCK input. (32.768kHz)
11	XC OUT	O	SUB CLOCK output. (32.768kHz)
12	RESET	I	System reset input.
13	X-OUT	O	MAIN SYSTEM CLOCK output. (16MHz)
14	VSS	—	Vss
15	X-IN	I	MAIN SYSTEM CLOCK input. (16MHz)
16	VCC	—	Power supply. (+5V)
17	NMI	I	PULL UP (EVER +5V)
18	WAKE_UP	I	WAKE UP signal input. (L)
19	SCOR	I	CD Q-data request signal input.
20	RDS-INT	I	RDS interrupt signal input.
21	RDS-DATA	I	RDS data signal input.
22	ST-MUTE	O	Tuner mute signal output.
23	STEREO	I	STEREO detect signal input. L=ON, H=OF
24	TUNED	I	TUNED detect signal input. L=ON, H=OFF
25	ST-CE	O	TUNER chip eneble output.
26	ST-DOUT	O	TUNER data output.
27	ST-DIN	I	TUNER data input.
28	ST-CLK	O	TUNER clock signal output.
29	IIC_CLK	O	IIC SCL output.
30	IIC_DATA	O	IIC SDA output.
31	TXDI	—	Not used.
32	SQ-DATA	I	Subcode Q data input. (CD data)
33	SQ-CLK	I	Subcode Q data input. (CD clock)
34	RST1	I	Not used.
35	CD-DATA	O	CD data input.
36	N.C	I	Not used.
37	CD-CLK	O	CD clock input.
38	N.C	I	Not used.
39	CLOCK-OUT	I	Clock check signal input.
40	SENS	I	BD condition signal input.
41	HOLD	O	MODE signal input.
42	XLT	O	CD latch signal output.
43	XRST	O	CD reset signal output.
44	LOAD-IN	I	Loading motor control signal input.
45	LOAD-OUT	O	Loading motor control signal output.
46	OPEN	I	Tray open detect signal input.
47	CLOSE	I	Tray close detect signal input.
48	UP/DOWN SW	I	Pick-up up/down detect signal input.
49	T-SENS	I	CD table detect signal input.
50	TEST MODE	I	Not used.

Pin No.	Pin Name	I/O	Description
51	N.C	I	Not used.
52	N.C	I	Not used.
53	N.C	I	Not used.
54	N.C	I	Not used.
55	N.C	I	Not used.
56	N.C	I	Not used.
57	A TRIG	O	A deck trigger control signal output.H=ON, L-OFF
58	B TRIG	O	B deck trigger control signal output.H=ON, L-OFF
59	CAPM-H/L	O	Capstan motor High/Low speed control signal output.
60	CAPM-CONT	O	Capstan motor REV/FWD/STOP control signal output.H=REV, L=FWD/STOP
61	N.C	I	Not used.
62	VCC	—	POWER SUPPLY (+5V)
63	N.C	I	Not used.
64	VSS	—	Ground.
65	N.C	I	Not used.
66	N.C	I	Not used.
67	A HALF	I	A deck half detect signal input.
68	A PLAY	I	A deck play detect signal input.
69	B PLAY	I	B deck play detect signal input.
70	AMS-IN	I	AMS signal input. L=ON,H=OFF
71	TC-MUTE	O	Tape deck line mute ON/OFF signal output. H=ON, L=OFF
72	R/PB/PAS	I	REC/PB/PASS select signal input.
73	NR-ON/OFF	O	DOLBY NR ON/OFF signal output. H=ON, L=OFF
74	REC-MUTE	O	REC mute ON/OFF signal output. L=ON, H=OFF
75	BAIS	O	BIAS ON/OFF signal output.H=ON, L=OFF
76	EQ-H/N	O	EQ High/Normal select signal output. H=High, L=Normal
77	PB-A/B	O	Playback deckA/B select signal output. H=deckB, L=deckA
78	ALC	O	ALC ON/OFF signal output. L=ON, H=OFF
79	TC-RELAY	O	Tape deck relay ON/OFF signal output. H=ON, L=OFF
80	N.C	I	Not used.
81	STBY-RELAY	O	STANDBY relay control signal output.
82	PROTECT	I	Speaker protect signal input. L=ON, H=OFF
83	DBFB-ON/OFF	I	Not used.
84	LINE-MUTE	O	Line mute signal output. L=ON, H=OFF
85	CD-POWER	O	CD-POWER ON/OFF signal output. H=ON, L=OFF
86	F-SHIFT	O	Not used.
87	RELAY-H	O	Speaker terminal relay control signal output. H=ON, L=OFF
88	POWER	O	POWER ON/OFF signal output. H=ON, L=OFF
89	N.C	O	Not used.
90	A SHUT	O	A deck reel pulse detect signal output.
91	B SHUT	O	B deck reel pulse detect signal output.
92	SOFT-TEST	O	Not used.
93	B HALF	O	B deck half detect signal input.
94	KEY/CD ADJ	O	KEY (for jig) / CD adjust.
95	MODEL-IN	I	MODEL input.
96	AVSS	—	Analog ground.
97	SPEC-IN	I	Version select signal input.
98	VREF	—	Analog Reference Voltage
99	AVCC	—	Analog Power Supply
100	STK-MUTE	O	Power amplifier mute ON/OFF signal output. H=ON, L=OFF

• **PANEL BOARD IC601 TMP88CP77F-1A22 (DISPLAY CONTROL)**

Pin No.	Pin Name	I/O	Description
1	VOLUME A	I	VOLUME A signal input.
2	VOLUME B	I	VOLUME B signal input.
3	HEADPHONE	I	Head phone detect signal input. H=ON, L=OFF
4	N.C	I	Not used.
5	TUNER	O	TUNER LED driver output.(high active)
6	CD	O	CD LED driver output.(high active)
7	TAPE A/B	O	TAPE A/B LED driver output.(high active)
8	MD/VIDEO	O	MD/VIDEO LED driver output.(high active)
9-10	N.C	O	Not used.
11	GROOVE	O	GROOVE LED driver output.(high active)
12-14	N.C	O	Not used.
15	REC/PAUSE	O	REC/PAUSE LED driver output.(high active)
16	SURROUND	O	SURROUND LED driver output.(high active)
17-19	KEY0-2	I	KEY input. (AD)
20	Super Low Freq (BPF 0)	I	BPF input. (AD)
21-25	BPF1-5	I	BPF input. (AD)
26	ALL BAND	I	BPF input. (AD)
27	TIMER	O	TIMER SEL LED driver output.
28	STANDBY	O	STANDBY LED output.
29	VSS	—	Ground.
30	VASS	—	Ground.
31	AVREF	—	Analog reference voltage.
32	VDD	—	Power supply (+5V)
33-49	G17-1	O	FL gride signal output.
50	P1	O	FL segment signal output.
51	VDD VFT	—	Power supply (+5V)
52-85	P2-35	O	FL segment signal output.
86	N.C	I	Not used.
87	VKK	—	–]30V driving power for FL.
88	VDD	—	Power supply (+5V)
89	Xin	I	12.5MHz (Xin)
90	VSS	—	Ground.
91	Xout	O	12.5MHz (Xout)
92	RESET	I	RESET (low active)
93-94	N.C	I	Not used.
95	TEST	I	Connected to ground.
96	WAKE UP	O	WAKE UP signal output for master controller. (PULL UP)
97	I2C data	O	IIC SDA
98	I2C clk	O	IIC SCL
99	N.C	I	Not used.
100	SIRCS	I	Remote commander input. (input capture)

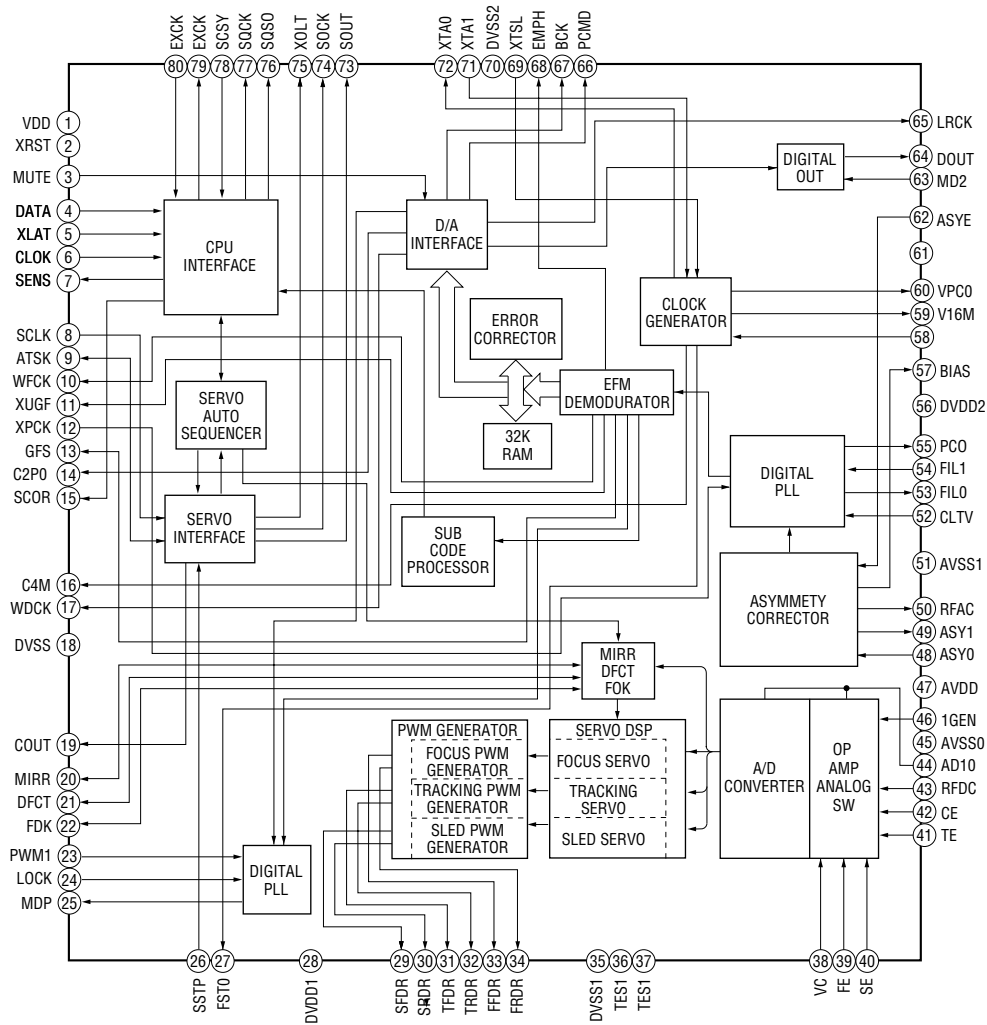
VIDEO CD BOARD IC502 M30624MCA-A34FP (CD MECHANISM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	SENSE	I	Internal status (SENSE) signal input from the CXD3008Q (IC101)
2	SENSE CLK	O	Sense serial data reading clock signal output to the CXD3008Q (IC101)
3	RESOLUTION	O	Y resolution output
4	CHROMA LEVEL	O	Chroma level output
5	DSP CLK	O	Serial data transfer clock signal output to the CXD3008Q (IC101)
6	TSENS	O	Not used (open)
7	REMOTE IN	I	Remote control signal input terminal Not used (open)
8	BYTE	I	External data bus line byte selection signal input “L”: 16 bit, “H”: 8 bit (fixed at “L”)
9	CN VSS	—	Ground terminal
10	DSP MUTE	O	Muting on/off control signal output to the CXD3008Q (IC101) “H”: muting on
11	CTRL1	O	Clock selection signal output to the CXD3008Q (IC101) “L”: 16.9344 MHz (double speed), “H”: 33.8688 MHz
12	$\overline{\text{XRESET}}$	I	Reset signal input from the system controller (IC501) “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
13	XOUT	O	Main system clock output terminal (10 MHz)
14	VSS	—	Ground terminal
15	XIN	I	Main system clock input terminal (10 MHz)
16	VCC	—	Power supply terminal (+5V)
17	NMI	I	Non-maskable interrupt input terminal (fixed at “H” in this set)
18	SCOR	I	Subcode sync (S0+S1) detection signal input from the CXD3008Q (IC101)
19	DSSENS	O	Not used (open)
20	$\overline{\text{CL680 HINT}}$	I	Interrupt request signal input from the MPEG video/audio decoder (IC505)
21	CL680 HSEL	O	
22	DF LATCH	O	Serial data latch pulse output to the D/A converter (IC509) “L” active
23	CL680 HRDY	—	
24	$\overline{\text{CL680 RESET}}$	O	Reset signal output to the MPEG video/audio decoder (IC505) “L”: reset
25	H.SYNC IN	I	Horizontal sync signal input
26	BGP	O	Burst gate pulse signal output
27	LPH	O	AGC hold signal output
28	LD ON	O	Laser power selection signal output to the CXA2568M (IC103) “H”: laser on
29	12C.CLK	I/O	I ² C clock signal from CD mechanism control (IC501).
30	12C.DATA	I/O	I ² C data signal from CD mechanism control (IC501).
31	DATA1O	O	Serial data output to the MPEG video/audio decoder (IC506) and D/A converter (IC509)
32	DATA1I	I	Serial data input from the MPEG video/audio decoder (IC506)
33	CLK1	O	Serial data transfer clock signal output to the MPEG video/audio decoder (IC506) and D/A converter (IC509)
34	RTS1	O	RTS signal to serial port (check connector).
35	XVLEVEL.DOWN	O	Not used (open)
36	SUBQ DATA	I	Sub-code Q data input from the CXD3008Q (IC101)
37	SUBQ CLK	O	Sub-code Q data reading clock signal output to the CXD3008Q (IC101)
38	P.ON	O	Power on/off control signal output terminal Not used (open)
39	BUS XRDY	I	Ready signal input terminal Not used (fixed at “H”)
40	BUS	O	Not used (open)
41	BUS XHOLD	I	Hold signal input terminal Not used (fixed at “H”)
42, 43	BUS	O	Not used (open)
44	OSD.LANGUAGE	I	OSD language select input terminal “H”: English, “L”: China
45	VSNC	I	Vertical sync signal input
46	BUS XWRL	O	Bus write signal output.
47	LO.BOOST	O	Not used (open)
48	AUDIO MUTE	O	Audio muting on/off control signal output terminal “L”: muting on Not used (open)
49	LOAD OUT	O	Loading motor drive signal output terminal Not used (open)
50	LOAD IN	O	Loading motor drive signal output terminal Not used (open)
51	INSW	I	Disc detection (load in) switch input terminal Not used (fixed at “H”)

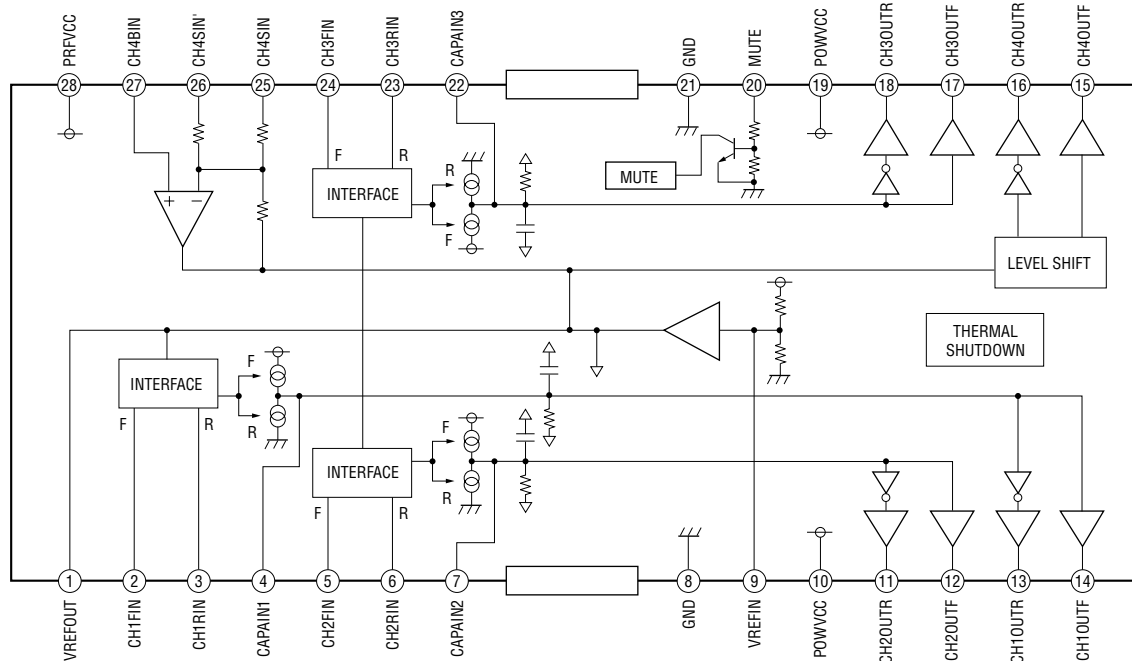
Pin No.	Pin Name	I/O	Description
52	OUTSW	I	Disc detection (load out) switch input terminal Not used (fixed at “H”)
53	MODEL1	I	Destination setting terminal (fixed at “L”)
54	MODEL2	I	Destination setting terminal (fixed at “L”)
55	TBLL	—	Not used (open)
56	TBLR	—	Not used (open)
57 to 59	ENC1 to ENC3	—	Not used (open)
60, 61		—	Not used (open)
62	VCC	—	Power supply terminal (+5V)
63		—	Not used (open)
64	VSS	—	Ground terminal
65	V.MUTE	O	Video muting on/off control signal output
66 to 72	A6 to A0	O	Address signal output for the external device
73	TEST LED	O	LED drive signal output for the self diagnosis indicator (D502) Normally: “L” (LED on)
74	TEST1	I	Setting terminal for the test mode 1 (for VCD check) Normally: fixed at “H” (“L”: test mode)
75	TEST2	I	Setting terminal for the test mode 2 (for SERVO check) Normally: fixed at “H” (“L”: test mode)
76	TEST3	I	Setting terminal for the test mode 3 Normally: fixed at “H” (“L”: test mode) Not used (fixed at “H”)
77	DEVICE RESET	O	System reset signal output to the CXD3008Q (IC101), BA5974FP (IC102) and D/A converter (IC509) “L”: reset
78	STANDBY	O	Standby on/off control signal output terminal Not used (open)
79	FL CS	O	Chip select signal output terminal Not used (open)
80	FLBLK	O	Blank control signal output terminal Not used (open)
81 to 88	D7 to D0	I/O	Two-way data bus with the external device Not used (open)
89	MIC CTRL	—	Not used.
90 to 92	KEY1 to KEY3	I	Key input terminal Not used (fixed at “H”)
93	NT/PAL	I	Video system select input terminal (open: AUTO)
94	MUSIC VOL	—	Not used.
95	DSP DATA	O	Serial data output to the CXD3008Q (IC101)
96	AVSS	—	Ground terminal (for A/D conversion)
97	DSP LATCH	O	Serial data latch pulse output to the CXD3008Q (IC101)
98	VREF	I	Reference voltage (+5V) input terminal (for A/D conversion)
99	AVCC	—	Power supply terminal (+5V) (for A/D conversion)
100	AMP ON	—	Not used.

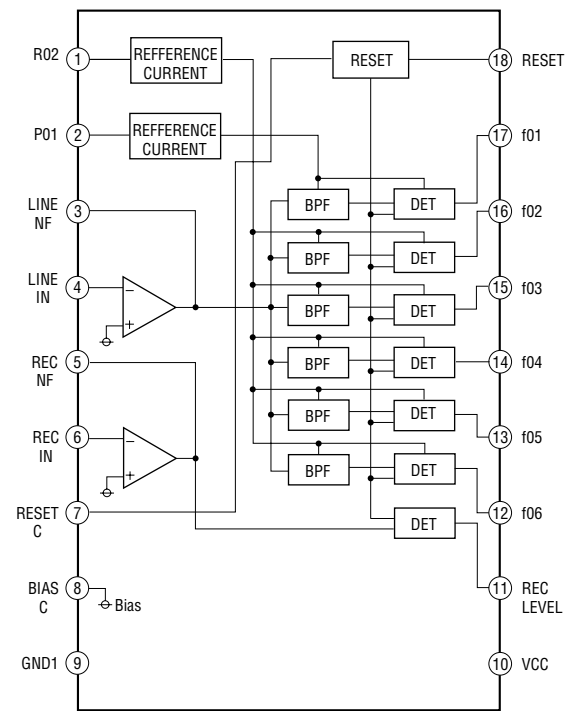
7-23. IC BLOCK DIAGRAMS

IC101 CXD3008Q (BD BOARD)

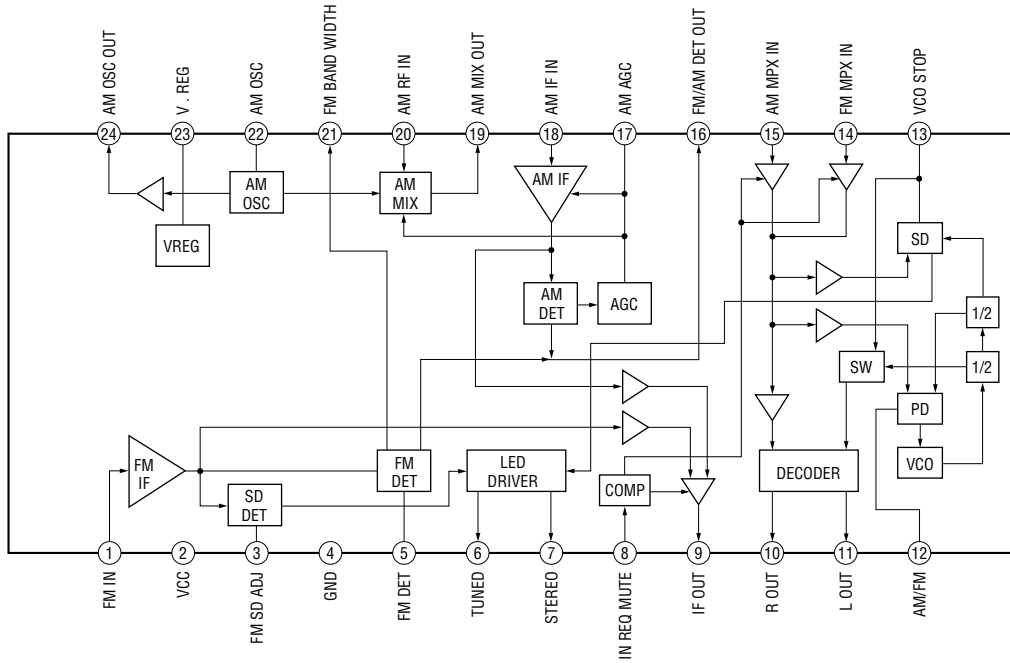


IC102 BA5974FP (BD BOARD)

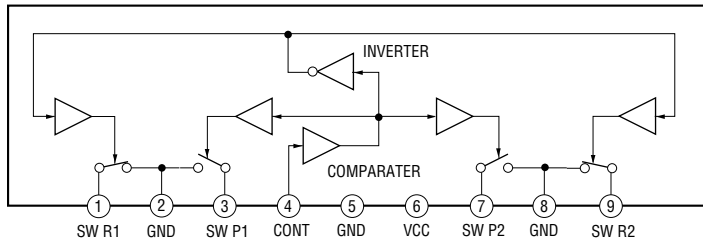


IC602 BA3830F (PANEL BOARD)

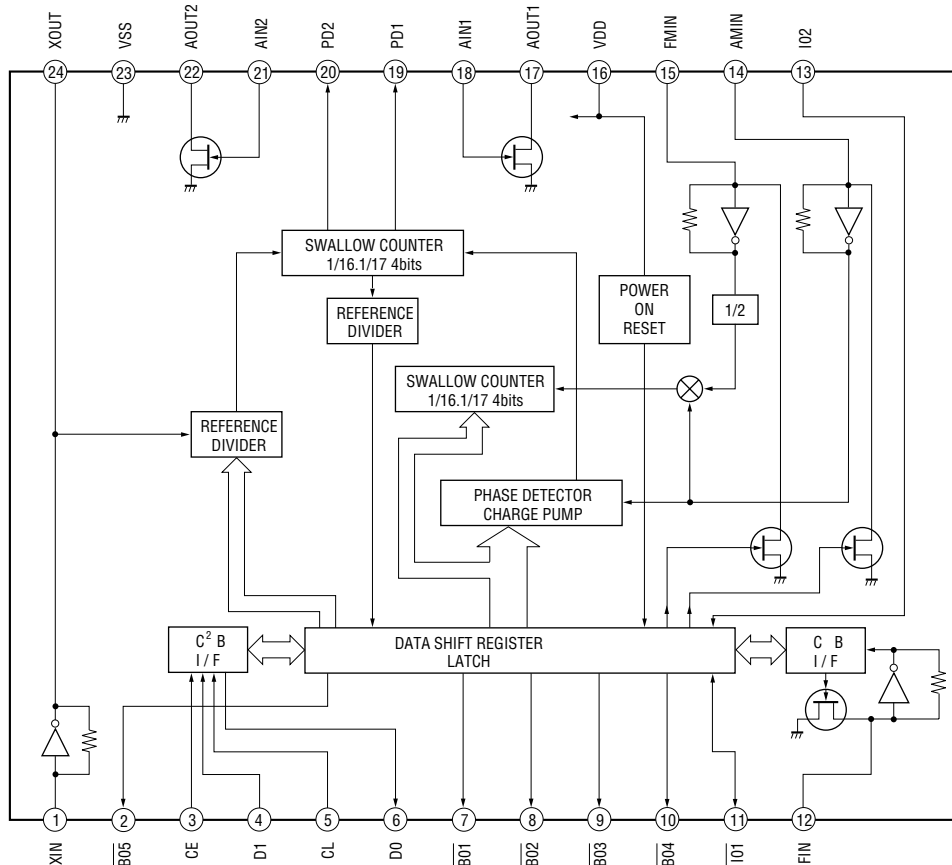
IC601 BA1450 (MAIN BOARD)



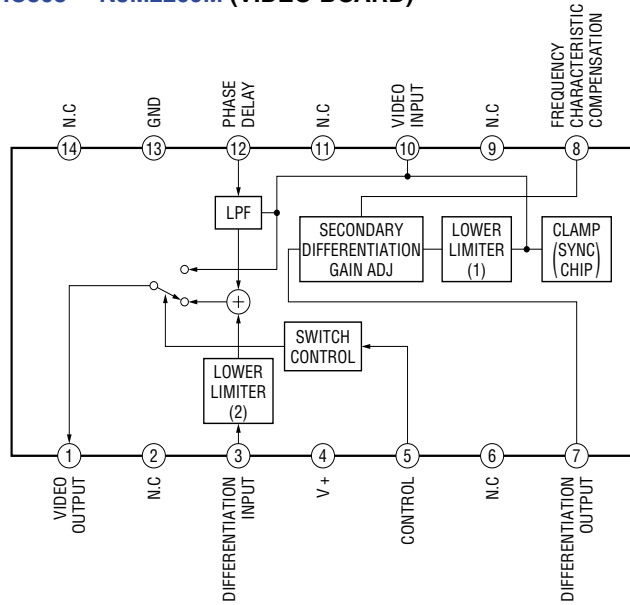
IC302 μ PC1330H (MAIN BOARD)



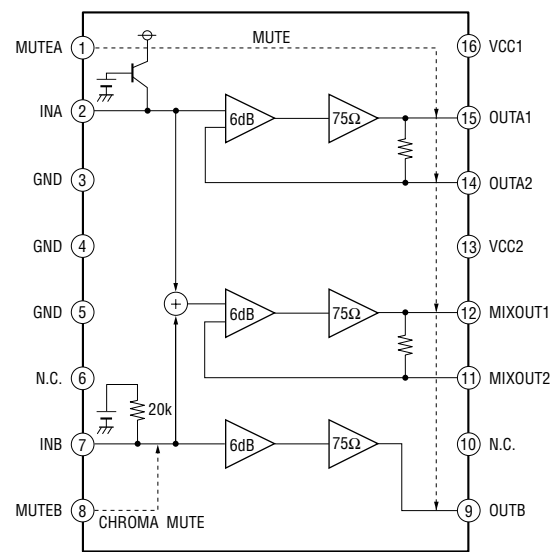
IC651 LC72130 (MAIN BOARD)



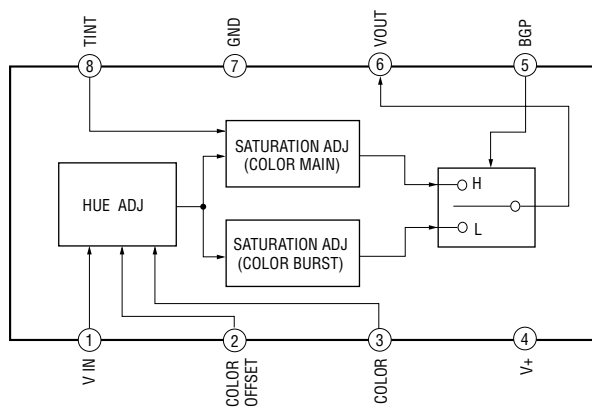
IC303 NJM2209M (VIDEO BOARD)



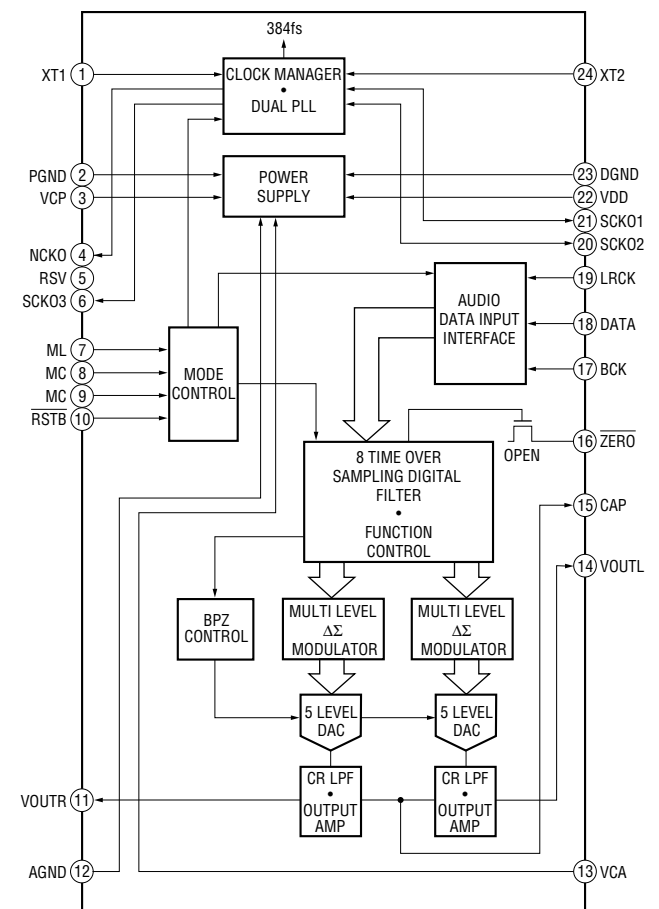
IC304 BA7665FS (VIDEO BOARD)



IC302 NJM2255M (VIDEO BOARD)



IC509 PCM1727 (VIDEO BOARD)



SECTION 8 EXPLODED VIEWS

NOTE:

- XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Color Indication of Appearance Parts Example:
KNOB, BALANCE (WHITE) . . . (RED)

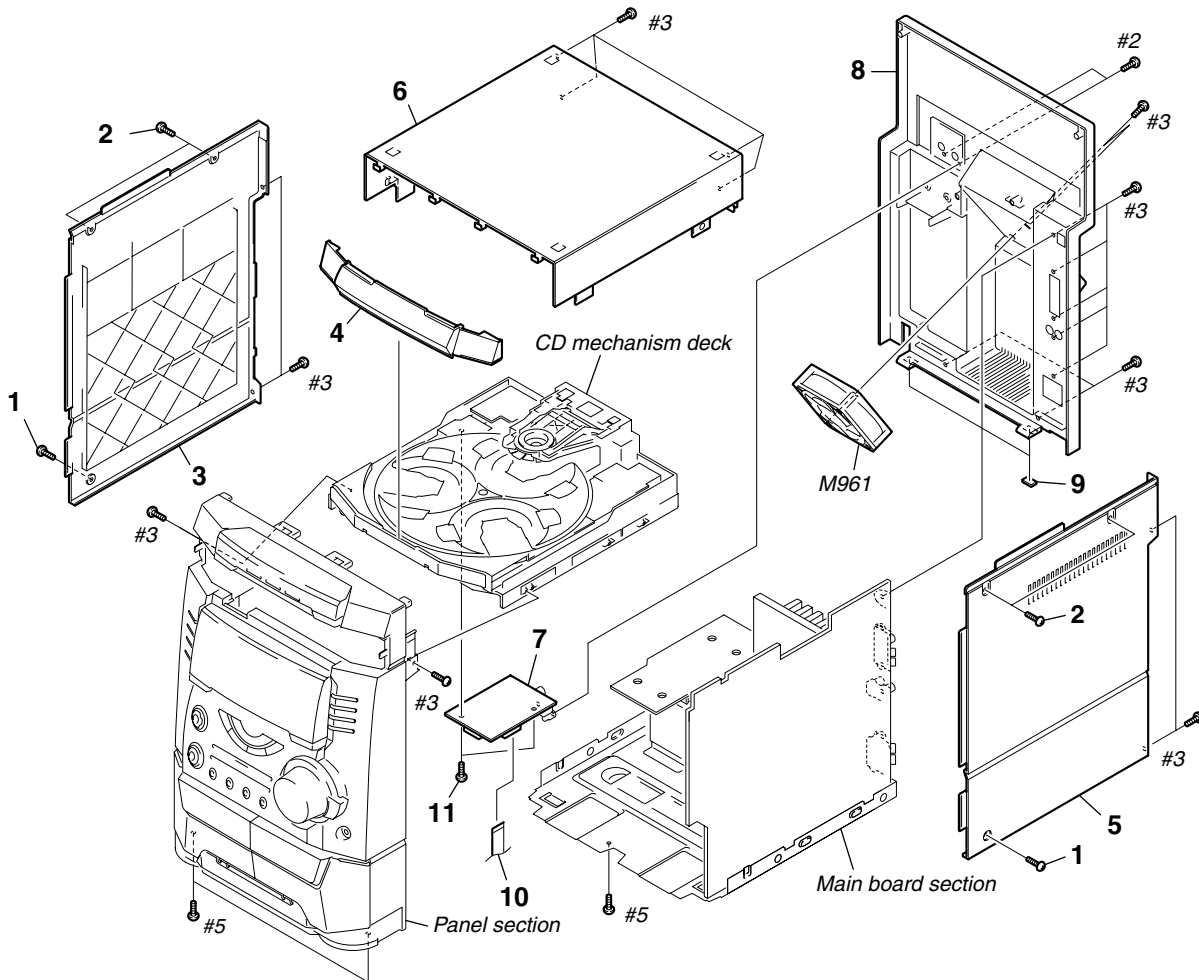
Parts of Color Cabinet's Color

- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

- Abbreviation
EA : Saudi Arabia model
MY : Malaysia model
SP : Singapore model
TH : Thai model
TW : Taiwan model
IA : Indonesia model
HK : Hong Kong model
JE : Tourist model

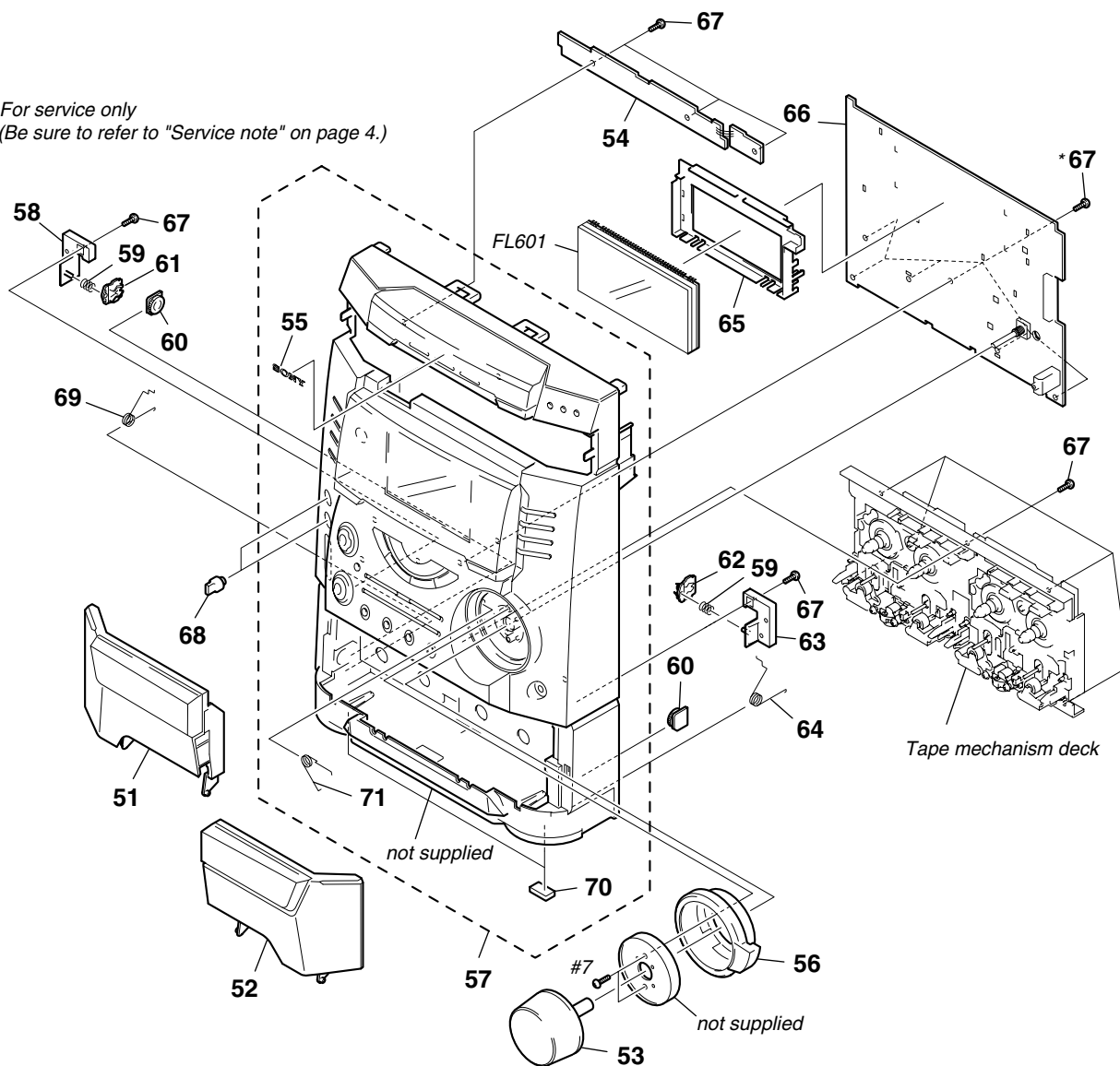
8-1. MAIN SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	3-363-099-01	SCREW(CASE 3 TP2)		6	4-224-550-41	UPPER CASE (TOP)	
2	3-363-099-41	SCREW(CASE 3 TP2)		7	A-4724-973-A	VIDEO BOARD, COMPLETE	
3	4-225-038-21	SIDE PANEL L		8	4-228-592-21	BACK PANEL	
4	4-225-017-41	LOADING PANEL (VX55:EXCEPT E)		9	4-225-252-01	CUSHION (FOOT)	
4	4-228-259-21	LOADING PANEL (VX55J)		10	1-792-246-11	WIRE(FLAT TYPE) (23 CORE)	
4	4-225-018-61	LOADING PANEL (VX55:E)		11	4-951-620-01	SCREW (2.6X8), +BVTP	
5	4-225-039-21	SIDE PANEL R		M961	1-763-072-11	FAN, D.C.	

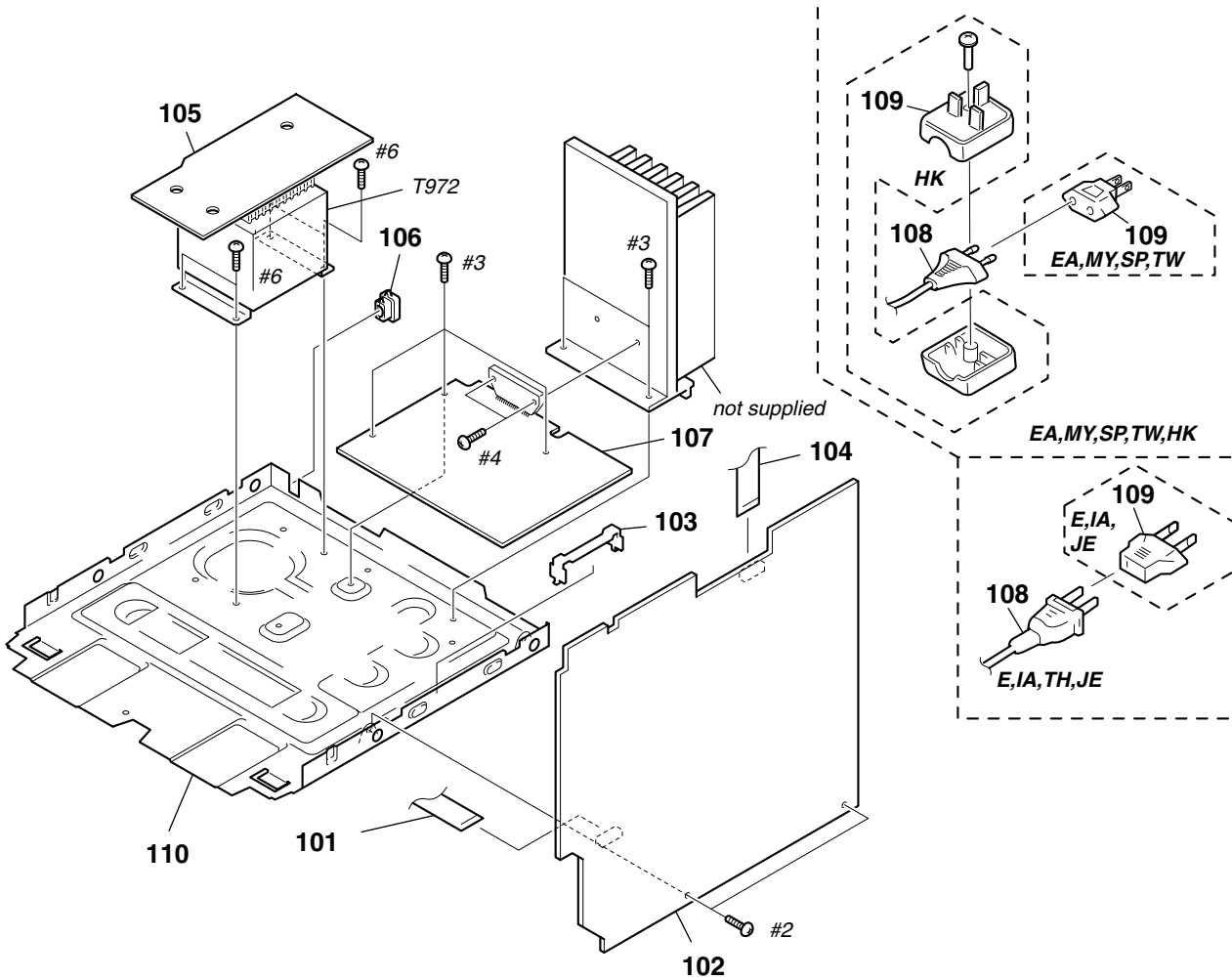
8-2. PANEL SECTION

** For service only
(Be sure to refer to "Service note" on page 4.)*



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>
51	X-4952-418-1	TC HOLDER (L) ASSY (SILVER)	(EXCEPT VX55E)	61	4-224-560-01	CAM(L), HEART	
				62	4-224-559-01	CAM(R), HEART	
51	X-4952-792-1	TC HOLDER (L) ASSY (BLACK)(VX55:E)		63	4-224-561-01	BRACKET (HEART CAM R)	
52	X-4952-419-1	TC HOLDER (R) ASSY (SILVER)	(EXCEPT VX55E)	64	4-225-053-01	SPRING R	
				65	4-224-584-11	HOLDER (FL)	
52	X-4952-791-1	TC HOLDER (R) ASSY (BLACK)(VX55:E)					
53	4-225-032-01	VOL KNOB		66	A-4428-457-A	PANEL BOARD, COMPLETE	(VX55:E,IA,EA,TW,HK,SP,MY/VX55J:JE)
54	A-4428-450-A	CD SWITCH BOARD, COMPLETE		66	A-4428-980-A	PANEL BOARD, COMPLETE (VX55:TH)	
55	4-962-708-71	EMBLEM (4-A), SONY		66	A-4473-160-A	PANEL BOARD, COMPLETE (VX55J:EA)	
56	4-225-033-01	FR KNOB		67	4-951-620-01	SCREW (2.6X8), +BVTP	
57	X-4952-669-1	FRONT PANEL ASSY (SILVER)(EXCEPT VX55E)		68	4-224-578-01	KNOB(MIC)	
57	X-4952-675-1	FRONT PANEL ASSY (BLACK)(VX55:E)					
				69	4-225-052-01	SPRING L	
58	4-224-562-01	BRACKET (HEART CAM L)		70	4-225-252-01	CUSHION (FOOT)	
59	4-224-803-01	SPRING (PUSH),COMPRESSION COIL		71	4-228-501-01	SPRING FR	
60	4-224-104-11	DAMPER		FL601	1-517-928-11	INDICATOR TUBE, FLUORESCENT	

8-3. MAIN BOARD SECTION

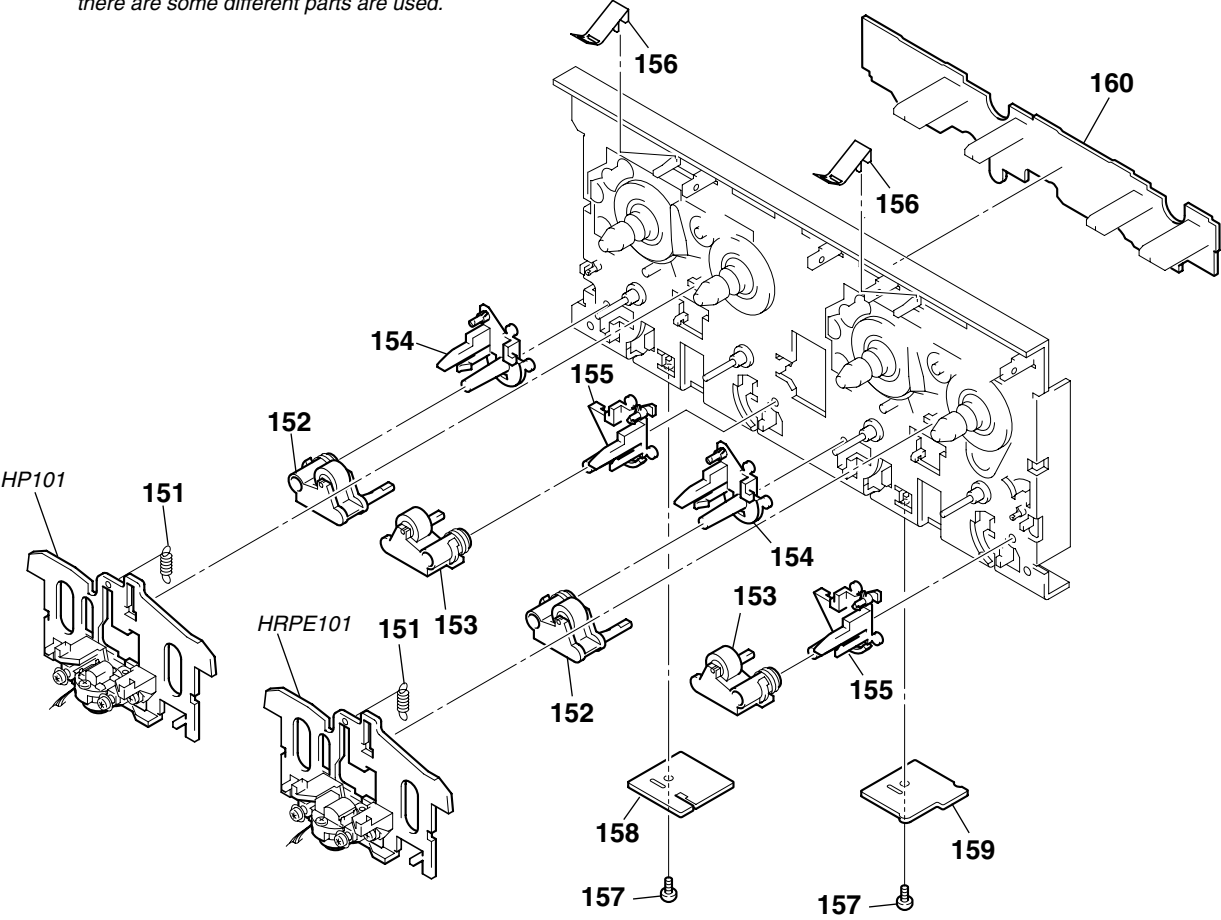


Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
101	1-773-045-11	WIRE (FLAT TYPE) (17 CORE)		107	A-4428-094-A	POWER AMP BOARD, COMPLETE (VX55:E,IA,EA,TW,HK,SP,MY/VX55J:JE)	
102	A-4428-453-A	MAIN BOARD, COMPLETE (VX55:E,IA,TW,HK,SP,MY/VX55J:JE)		107	A-4428-901-A	POWER AMP BOARD, COMPLETE (VX55:TH)	
102	A-4428-898-A	MAIN BOARD, COMPLETE (VX55:EA)		107	A-4473-050-A	POWER AMP BOARD, COMPLETE (VX55J:EA)	
102	A-4428-983-A	MAIN BOARD, COMPLETE (VX55:TH)		△ 108	1-777-071-21	CORD, POWER (VX55J:EA)	
102	A-4473-163-A	MAIN BOARD, COMPLETE (VX55J:EA)		△ 108	1-777-071-51	CORD, POWER (VX55:EA,TW,HK,SP,MY)	
* 103	4-988-533-01	HOLDER, PWB		△ 108	1-791-901-11	CORD, POWER (VX55:E,IA,TH/VX55J:JE)	
104	1-769-987-11	WIRE (FLAT TYPE) (13 CORE)		△ 109	1-569-007-11	ADAPTOR, CONVERSION (VX55:E,IA/VX55J:JE)	
105	1-676-808-11	TRANS BOARD		△ 109	1-569-008-31	ADAPTOR, CONVERSION (VX55:EA,TW,SP,MY/VX55J:EA)	
106	4-966-267-01	BUSHING (FBS001), CORD (VX55:EA,TW,HK,SP,MY/VX55J:EA)		△ 109	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (VX55:HK)	
106	4-966-266-01	BUSHING (S) (FBS002), CORD (VX55:E,TH,IA/VX55J:JE)		110	4-224-546-21	CHASSIS, MAIN	
				△ T972	1-435-262-11	TRANSFORMER, POWER	

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

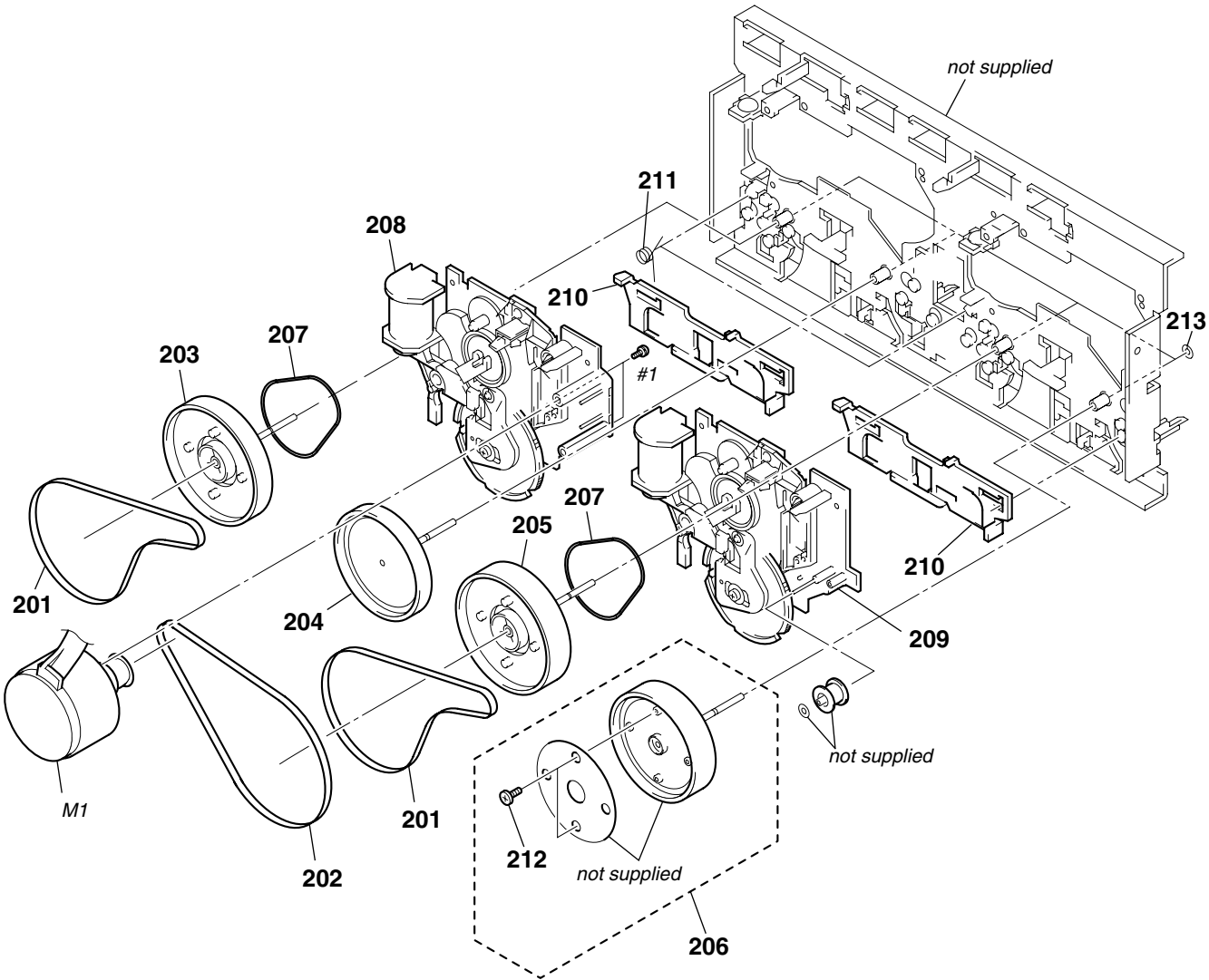
8-4. TAPE MECHANISM DECK SECTION (TCM-230PWR11) (1/2)

Note: Two different types of tape mechanism are used depending on models.
They maintain compatibility as an entire mechanism even though there are some different parts are used.



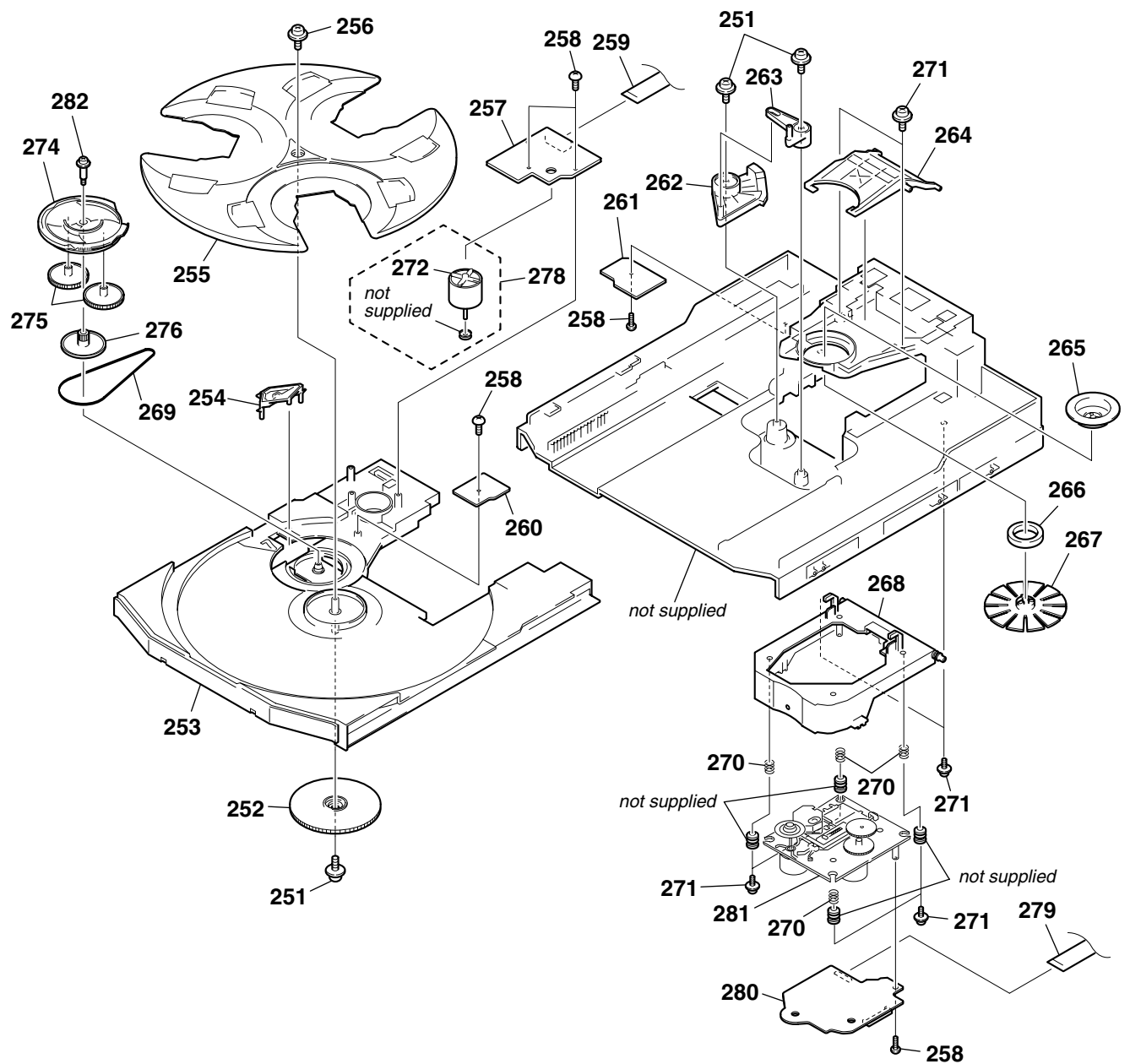
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
151	3-016-574-01	SPRING (HEAD), TENSION		157	4-227-872-01	SCREW (+PTT 2X4), GROUND POINT	
152	X-3374-156-4	PINCH LEVER (REV) ASSY		158	1-676-220-11	HEAD (A) BOARD	
153	X-3374-155-4	PINCH LEVER (FWD) ASSY		159	1-676-221-11	HEAD (B) BOARD	
154	3-017-366-01	BASE (PINCH LEVER REV)		160	A-2007-838-A	LEAF SW BOARD, COMPLETE	
155	3-017-365-01	BASE (PINCH LEVER FWD)		HP101	A-2004-765-A	BASE (A) ASSY, HEAD	
156	3-016-567-02	SPRING (CASSETTE), LEAF		HRPE101	A-2004-766-A	BASE (B) ASSY, HEAD	

8-5. TAPE MECHANISM DECK SECTION (TCM-230PWR11) (2/2)



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
201	3-041-946-01	BELT (CAPSTAN B)		208	A-2004-753-A	BLOCK (B) ASSY, MECHANICAL	
202	4-227-239-01	BELT (CAPSTAN C)		209	A-2004-752-A	BLOCK (A) ASSY, MECHANICAL	
203	X-3378-249-1	FLYWHEEL (B-FWD) ASSY		210	3-016-566-01	SLIDER, REVERSE	
204	X-3378-250-1	FLYWHEEL (B-REV) ASSY		211	4-228-450-01	SPRING (REVERSE SLIDER), TORSION	
205	X-3378-247-1	FLYWHEEL (A-FWD) ASSY		212	3-372-761-01	SCREW (M1.7), TAPPING	
206	X-3378-248-1	FLYWHEEL (A-REV) ASSY		213	3-019-208-01	WASHER, STOPPER	
207	3-041-947-01	BELT (FR)		M1	X-3378-246-1	MOTOR ASSY	

8-6. CD MECHANISM DECK SECTION (CDM58-K2BD37)



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
251	4-933-134-11	SCREW (+PTPWH M2.6X8)		266	1-471-035-11	MAGNET ASSY	
252	4-221-679-01	CAM(RELAY)		267	X-4952-019-1	PULLEY (A) ASSY, CHUCKING	
253	4-221-675-01	TABLE		268	X-4951-889-1	HOLDER (BU) ASSY	
254	4-221-686-01	LEVER (CHANGE)		269	4-222-095-01	BELT	
255	4-221-676-01	TRAY		270	4-227-045-01	SPRING (INSULATOR), COIL	
256	4-933-134-51	SCREW (+PTPWH 2.6X8)		271	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
257	1-675-910-11	MOTOR BOARD		272	1-541-632-11	MOTOR, DC	
258	4-951-620-01	SCREW (2.6X8), +BVTP		274	4-221-678-01	CAM(CONTROL)	
259	1-791-983-12	WIRE (FLAT TYPE) (8 CORE)		275	4-221-683-01	GEAR (U)	
260	1-675-911-11	ADDRESS SENSOR BOARD		276	4-221-685-01	PULLEY (S)	
261	1-675-912-11	DRIVER BOARD		278	A-4672-826-A	MOTOR ASSY	
262	X-4952-608-1	CAM(U/D) ASSY		279	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
263	4-221-681-01	LEVER (EX)		280	A-4725-003-A	BD BOARD, COMPLETE	
264	4-221-682-01	LEVER (LIFTER)		△ 281	8-820-116-01	OPTICAL PICK-UP BLOCK (KSM-213DAP)	
265	4-221-688-01	PULLEY (B), CHUCKING		282	4-222-097-01	SCREW, STEP	

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

SECTION 9

ADDRESS SENSOR

BD

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
uF: μ F
- COILS
uH: μ H
- RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA..., μ PA...,
uPB..., μ PB..., uPC..., μ PC...,
uPD..., μ PD...

- Abbreviation
EA : Saudi Arabia model
MY : Malaysia model
SP : Singapore model
TH : Thai model
TW : Taiwan model
IA : Indonesia model
HK : Hong Kong model
JE : Tourist model

When indicating parts by reference number, please include the board name.

The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remarks				Ref. No.	Part No.	Description	Remarks			
	1-675-911-11	ADDRESS SENSOR BOARD					C141	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
		*****					C154	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
							C159	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
		< IC >					C161	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
							C170	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
IC711	8-749-014-38	PHOTO INTERRUPTER SG-264											
		< RESISTOR >					C171	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
							C180	1-163-137-00	CERAMIC CHIP	680PF	5%	50V	
R711	1-247-876-11	CARBON	75K	5%	1/4W		C181	1-163-137-00	CERAMIC CHIP	680PF	5%	50V	
R712	1-249-409-11	CARBON	220	5%	1/4W	F	C182	1-163-137-00	CERAMIC CHIP	680PF	5%	50V	
R713	1-249-429-11	CARBON	10K	5%	1/4W		C183	1-163-137-00	CERAMIC CHIP	680PF	5%	50V	
		< SWITCH >					C184	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
							C185	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
S711	1-771-821-11	SWITCH, PUSH (1 KEY)(UP/DOWN)					C186	1-128-065-11	ELECT CHIP	68uF	20.00%	10V	
*****							C187	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
									< CONNECTOR >				
	A-4725-003-A	BD BOARD, COMPLETE					CN101	1-770-706-11	CONNECTOR, FFC/FPC 23P				
		*****					CN102	1-777-937-11	CONNECTOR, FFC/FPC 16P				
		< CAPACITOR >											
									< IC >				
C101	1-163-005-11	CERAMIC CHIP	470PF	10%	50V		IC101	8-752-397-42	IC CXD3008Q				
C102	1-163-038-91	CERAMIC CHIP	0.1uF		25V		IC102	8-759-640-22	IC BA5982FM				
C103	1-163-005-11	CERAMIC CHIP	470PF	10%	50V		IC103	8-752-085-51	IC CXA2568M-T6				
C105	1-126-206-11	ELECT CHIP	100uF	20%	6.3V		IC104	8-759-325-67	IC TC7SH04F(TE85R)				
C106	1-164-346-11	CERAMIC CHIP	1uF		16V								
C107	1-164-346-11	CERAMIC CHIP	1uF		16V				< COIL >				
C108	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V		L101	1-414-234-22	INDUCTOR CHIP	0uH			
C109	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V		L102	1-410-377-31	INDUCTOR CHIP	4.7uH			
C110	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V								
C111	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V				< TRANSISTOR >				
C112	1-163-038-91	CERAMIC CHIP	0.1uF		25V		Q101	8-729-010-08	TRANSISTOR	MSB710-RT1			
C113	1-163-038-91	CERAMIC CHIP	0.1uF		25V								
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V				< RESISTOR >				
C116	1-126-607-11	ELECT CHIP	47uF	20%	4V		R101	1-216-077-91	RES-CHIP	15K	5%	1/10W	
C117	1-126-209-11	ELECT CHIP	100uF	20.00%	4V		R102	1-216-097-91	RES-CHIP	100K	5%	1/10W	
C118	1-163-275-11	CERAMIC CHIP	0.001uF	5.00%	50V		R103	1-216-077-91	RES-CHIP	15K	5%	1/10W	
C119	1-163-106-00	CERAMIC CHIP	36PF	5.00%	50V		R104	1-216-085-00	METAL CHIP	33K	5%	1/10W	
C120	1-109-982-11	CERAMIC CHIP	1uF	10.00%	10V		R105	1-216-073-00	METAL CHIP	10K	5%	1/10W	
C121	1-109-982-11	CERAMIC CHIP	1uF	10.00%	10V								
C122	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V		R106	1-216-049-91	RES-CHIP	1K	5%	1/10W	
C123	1-163-021-91	CERAMIC CHIP	0.01uF	10.00%	50V		R107	1-216-073-00	METAL CHIP	10K	5%	1/10W	
C124	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V		R108	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
C126	1-124-779-00	ELECT CHIP	10uF	20%	16V		R109	1-216-121-91	RES-CHIP	1M	5%	1/10W	
C130	1-163-038-91	CERAMIC CHIP	0.1uF		25V		R110	1-216-295-91	SHORT	0			
C140	1-163-038-91	CERAMIC CHIP	0.1uF		25V								

Ref. No.	Part No.	Description				Remarks	Ref. No.	Part No.	Description				Remarks
R112	1-216-025-91	RES-CHIP	100	5%	1/10W			A-4428-450-A	CD SWITCH BOARD, COMPLETE				
R123	1-216-073-00	METAL CHIP	10K	5%	1/10W				*****				
R124	1-216-097-91	RES-CHIP	100K	5%	1/10W								
R125	1-216-033-00	METAL CHIP	220	5%	1/10W				< DIODE >				
R126	1-216-033-00	METAL CHIP	220	5%	1/10W								
							D630	8-719-056-13	DIODE SML79423C-TP15				
R127	1-216-033-00	METAL CHIP	220	5%	1/10W		D631	8-719-056-13	DIODE SML79423C-TP15				
R131	1-216-033-00	METAL CHIP	220	5%	1/10W		D632	8-719-056-13	DIODE SML79423C-TP15				
R135	1-216-295-91	SHORT	0										
R136	1-216-295-91	SHORT	0						< TRANSISTOR >				
R137	1-216-295-91	SHORT	0										
							Q630	8-729-422-57	TRANSISTOR BN1A4M-TP				
R138	1-216-295-91	SHORT	0				Q631	8-729-422-57	TRANSISTOR BN1A4M-TP				
R143	1-216-103-00	METAL CHIP	180K	5%	1/10W		Q632	8-729-422-57	TRANSISTOR BN1A4M-TP				
R144	1-216-103-00	METAL CHIP	180K	5%	1/10W		Q633	8-729-422-57	TRANSISTOR BN1A4M-TP				
R145	1-216-121-91	RES-CHIP	1M	5%	1/10W		Q634	8-729-422-57	TRANSISTOR BN1A4M-TP				
R146	1-216-121-91	RES-CHIP	1M	5%	1/10W								
							Q635	8-729-422-57	TRANSISTOR BN1A4M-TP				
R147	1-216-041-00	METAL CHIP	470	5%	1/10W								
R148	1-216-001-00	METAL CHIP	10	5%	1/10W				< RESISTOR >				
R149	1-216-003-11	RES-CHIP	12	5%	1/10W								
R150	1-216-073-00	METAL CHIP	10K	5%	1/10W		R685	1-249-417-11	CARBON 1K 5%	1/4W	F		
R154	1-216-025-91	RES-CHIP	100	5%	1/10W		R686	1-249-418-11	CARBON 1.2K 5%	1/4W	F		
							R687	1-249-420-11	CARBON 1.8K 5%	1/4W	F		
R155	1-216-025-91	RES-CHIP	100	5%	1/10W		R688	1-249-422-11	CARBON 2.7K 5%	1/4W	F		
R156	1-216-025-91	RES-CHIP	100	5%	1/10W		R689	1-247-843-11	CARBON 3.3K 5%	1/4W			
R157	1-216-025-91	RES-CHIP	100	5%	1/10W								
R158	1-216-073-00	METAL CHIP	10K	5%	1/10W		R690	1-249-425-11	CARBON 4.7K 5%	1/4W	F		
R159	1-216-089-91	RES-CHIP	47K	5%	1/10W		R691	1-249-427-11	CARBON 6.8K 5%	1/4W	F		
							R692	1-249-429-11	CARBON 10K 5%	1/4W			
R161	1-216-295-91	SHORT	0				R750	1-249-406-11	CARBON 120 5%	1/4W	F		
R162	1-216-101-00	METAL CHIP	150K	5%	1/10W		R751	1-249-406-11	CARBON 120 5%	1/4W	F		
R171	1-216-025-91	RES-CHIP	100	5%	1/10W								
R172	1-216-025-91	RES-CHIP	100	5%	1/10W		R752	1-249-406-11	CARBON 120 5%	1/4W	F		
R173	1-216-025-91	RES-CHIP	100	5%	1/10W		R753	1-249-406-11	CARBON 120 5%	1/4W	F		
							R754	1-249-406-11	CARBON 120 5%	1/4W	F		
R175	1-216-025-91	RES-CHIP	100	5%	1/10W		R755	1-249-406-11	CARBON 120 5%	1/4W	F		
R180	1-216-097-91	RES-CHIP	100K	5%	1/10W								
R181	1-216-100-00	RES-CHIP	130K	5%	1/10W				< SWITCH >				
R182	1-216-081-00	METAL CHIP	22K	5%	1/10W								
R183	1-216-081-00	METAL CHIP	22K	5%	1/10W		S642	1-762-875-21	SWITCH, KEYBOARD (DISC SKIP)				
							S643	1-762-875-21	SWITCH, KEYBOARD (DISC 1)				
R184	1-216-070-00	METAL CHIP	7.5K	5%	1/10W		S644	1-762-875-21	SWITCH, KEYBOARD (DISC 2)				
R185	1-216-070-00	METAL CHIP	7.5K	5%	1/10W		S645	1-762-875-21	SWITCH, KEYBOARD (DISC 3)				
R186	1-216-081-00	METAL CHIP	22K	5%	1/10W		S646	1-762-875-21	SWITCH, KEYBOARD (CD OPEN/CLOSE)				
R187	1-216-081-00	METAL CHIP	22K	5%	1/10W								
R188	1-216-070-00	METAL CHIP	7.5K	5%	1/10W		S647	1-762-875-21	SWITCH, KEYBOARD (PREV)				
							S648	1-762-875-21	SWITCH, KEYBOARD (NEXT)				
R189	1-216-070-00	METAL CHIP	7.5K	5%	1/10W		S649	1-762-875-21	SWITCH, KEYBOARD (RETURN)				
R190	1-216-081-00	METAL CHIP	22K	5%	1/10W		*****						
R191	1-216-081-00	METAL CHIP	22K	5%	1/10W								
R192	1-216-070-00	METAL CHIP	7.5K	5%	1/10W			1-675-912-11	DRIVER BOARD				
R193	1-216-070-00	METAL CHIP	7.5K	5%	1/10W				*****				
R194	1-216-295-91	SHORT	0										
R203	1-216-025-91	RES-CHIP	100	5%	1/10W				< CAPACITOR >				
R204	1-216-025-91	RES-CHIP	100	5%	1/10W								
R205	1-216-025-91	RES-CHIP	100	5%	1/10W		C702	1-126-964-51	ELECT 10uF 20.00% 50V				
R206	1-216-295-91	SHORT	0										
									< CONNECTOR >				
		< SWITCH >											
							CN701	1-785-336-11	PIN, CONNECTOR(LIGHT ANGLE)10P				
S101	1-771-853-11	SWITCH, DETECTION (LIMIT IN)					CN702	1-785-550-11	CONNECTOR, FFC/FPC 8P				

DRIVER	HEAD (A)	HEAD (B)	LEAF SW	MAIN
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Ref. No.	Part No.	Description	Remarks		
< IC >					
IC701	8-759-598-69	IC BA6956AN			
< RESISTOR >					
R701	1-249-411-11	CARBON	330	5%	1/4W
R702	1-249-401-11	CARBON	47	5%	1/4W F

	1-676-220-11	HEAD(A) BOARD	*****		
< CONNECTOR >					
* CN1	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P	*****		

	1-676-221-11	HEAD(B) BOARD	*****		
CN2	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P	*****		

	A-2007-838-A	LEAF SW BOARD, COMPLETE	*****		
< CAPACITOR >					
C1001	1-107-716-11	ELECT	33uF	20.00%	10V
< CONNECTOR >					
CN1001	1-568-860-21	SOCKET, CONNECTOR 17P			
< DIODE >					
D1001	8-719-911-19	DIODE 1SS133T-72			
D1002	8-719-911-19	DIODE 1SS133T-72			
< IC >					
IC1001	8-749-014-38	PHOTO INTERRUPTER SG-264			
IC1002	8-749-014-38	PHOTO INTERRUPTER SG-264			
< TRANSISTOR >					
Q1001	8-729-029-56	TRANSISTOR DTA144ESA-TP			
< RESISTOR >					
R1001	1-249-409-11	CARBON	220	5%	1/4W F
R1002	1-249-409-11	CARBON	220	5%	1/4W F
R1003	1-249-414-11	CARBON	560	5%	1/4W F
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W
R1005	1-247-818-11	CARBON	300	5%	1/4W
R1006	1-247-864-11	CARBON	24K	5%	1/4W
R1007	1-247-780-00	CARBON	7.5	5%	1/4W
R1008	1-249-417-11	CARBON	1K	5%	1/4W F
< VARIABLE RESISTOR >					
RV1001	1-241-785-11	RES, ADJ, CARBON 10K			
RV1002	1-241-785-11	RES, ADJ, CARBON 10K			

Ref. No.	Part No.	Description	Remarks		
< SWITCH >					
S1001	1-570-953-11	SWITCH, PUSH (1 KEY) (A PLAY)			
S1002	1-570-953-11	SWITCH, PUSH (1 KEY) (B PLAY)			
S1003	1-771-333-11	SWITCH, LEAF (A HALF)			
S1004	1-771-205-11	SWITCH, LEAF (A 120/70)			
S1005	1-771-205-11	SWITCH, LEAF (REC A)			
S1006	1-771-333-11	SWITCH, LEAF (B HALF)			
S1008	1-771-205-11	SWITCH, LEAF (B 120/70)			
S1009	1-771-205-11	SWITCH, LEAF (REC B)			

A-4428-453-A		MAIN BOARD, COMPLETE			
		(VX55:E,IA,TW,HK,SP,MY/VX55J:JE)			

A-4428-898-A		MAIN BOARD, COMPLETE (VX55:EA)			

A-4428-983-A		MAIN BOARD, COMPLETE (VX55:TH)			

A-4473-163-A		MAIN BOARD, COMPLETE (VX55J:EA)			

7-685-646-79	SCREW+BVTP	3X8	TYPE2 N-S		
< CAPACITOR >					
C101	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C102	1-126-961-11	ELECT	2.2uF	20.00%	50V
C103	1-126-964-11	ELECT	10uF	20.00%	50V
C104	1-126-964-11	ELECT	10uF	20.00%	50V
C105	1-126-964-11	ELECT	10uF	20.00%	50V
C106	1-136-161-00	MYLAR	0.047uF	5.00%	50V
C107	1-136-495-11	MYLAR	0.068uF	5.00%	50V
C108	1-136-495-11	MYLAR	0.068uF	5.00%	50V
C109	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C110	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C111	1-163-018-00	CERAMIC CHIP	0.0056uF	5%	50V
C112	1-126-961-11	ELECT	2.2uF	20.00%	50V
C113	1-126-957-11	ELECT	0.22uF	20.00%	50V
C114	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C115	1-136-169-00	MYLAR	0.22uF	5.00%	50V
C116	1-136-169-00	MYLAR	0.22uF	5.00%	50V
C117	1-126-964-11	ELECT	10uF	20.00%	50V
C118	1-126-961-11	ELECT	2.2uF	20.00%	50V
C119	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C120	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C121	1-126-964-11	ELECT	10uF	20.00%	50V
C122	1-126-964-11	ELECT	10uF	20.00%	50V
C123	1-126-964-11	ELECT	10uF	20.00%	50V
C124	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C126	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C131	1-136-169-00	MYLAR	0.22uF	5.00%	50V
C132	1-126-964-11	ELECT	10uF	20.00%	50V
C133	1-126-925-11	ELECT	470uF	20.00%	10V
C134	1-163-033-91	CERAMIC CHIP	0.022uF		50V
C135	1-126-964-11	ELECT	10uF	20.00%	50V
C140	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C142	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C144	1-126-964-11	ELECT	10uF	20.00%	50V
C146	1-126-925-11	ELECT	470uF	20.00%	10V
C151	1-163-001-11	CERAMIC CHIP	220PF	10%	50V

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
C152	1-126-961-11	ELECT	2.2uF	20.00%	50V	C324	1-126-964-11	ELECT	10uF	20.00%	50V
C153	1-126-964-11	ELECT	10uF	20.00%	50V	C325	1-126-965-11	ELECT	22uF	20.00%	50V
C154	1-126-964-11	ELECT	10uF	20.00%	50V	C326	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C155	1-126-964-11	ELECT	10uF	20.00%	50V	C327	1-104-665-11	ELECT	100uF	20.00%	10V
C156	1-136-161-00	MYLAR	0.047uF	5.00%	50V	C328	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C157	1-136-495-11	MYLAR	0.068uF	5.00%	50V	C329	1-130-483-00	MYLAR	0.01uF	5%	50V
C158	1-136-495-11	MYLAR	0.068uF	5.00%	50V	C330	1-126-964-11	ELECT	10uF	20.00%	50V
C159	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	C331	1-126-965-11	ELECT	22uF	20.00%	50V
C160	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	C332	1-137-427-11	MYLAR	120PF	5.00%	50V
C161	1-163-018-00	CERAMIC CHIP	0.0056uF	5%	50V	C333	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C162	1-126-961-11	ELECT	2.2uF	20.00%	50V	C334	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C165	1-136-169-00	MYLAR	0.22uF	5.00%	50V	C335	1-137-150-11	MYLAR	0.01uF	5.00%	100V
C166	1-136-169-00	MYLAR	0.22uF	5.00%	50V	C336	1-126-961-11	ELECT	2.2uF	20.00%	50V
C167	1-126-964-11	ELECT	10uF	20.00%	50V	C337	1-136-155-00	FILM	0.015uF	5%	50V
C171	1-126-964-11	ELECT	10uF	20.00%	50V	C338	1-130-481-00	MYLAR	0.0068uF	5%	50V
C172	1-126-964-11	ELECT	10uF	20.00%	50V	C339	1-130-481-00	MYLAR	0.0068uF	5%	50V
C181	1-163-038-91	CERAMIC CHIP	0.1uF		25V	C340	1-136-156-00	MYLAR	0.018uF	5.00%	50V
C182	1-126-963-11	ELECT	4.7uF	20.00%	50V	C341	1-126-960-11	ELECT	1uF	20.00%	50V
C185	1-126-960-11	ELECT	1uF	20.00%	50V	C342	1-104-664-11	ELECT	47uF	20.00%	16V
C186	1-126-960-11	ELECT	1uF	20.00%	50V	C351	1-126-960-11	ELECT	1uF	20.00%	50V
C187	1-163-038-91	CERAMIC CHIP	0.1uF		25V	C352	1-130-479-00	MYLAR	0.0047uF	5%	50V
C188	1-163-031-11	CERAMIC CHIP	0.01uF		50V	C353	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C189	1-126-963-11	ELECT	4.7uF	20.00%	50V	C355	1-126-964-11	ELECT	10uF	20.00%	50V
C199	1-163-038-91	CERAMIC CHIP	0.1uF		25V	C356	1-126-960-11	ELECT	1uF	20.00%	50V
C201	1-104-665-11	ELECT	100uF	20.00%	10V	C357	1-126-959-11	ELECT	0.47uF	20.00%	50V
C202	1-126-935-11	ELECT	470uF	20.00%	6.3V	C358	1-126-964-11	ELECT	10uF	20.00%	50V
C203	1-163-033-91	CERAMIC CHIP	0.022uF		50V	C359	1-137-194-81	MYLAR	0.47uF	5.00%	50V
C204	1-126-961-11	ELECT	2.2uF	20.00%	50V	C360	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C205	1-163-033-91	CERAMIC CHIP	0.022uF		50V	C362	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C206	1-126-961-11	ELECT	2.2uF	20.00%	50V	C363	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C207	1-126-916-11	ELECT	1000uF	20.00%	6.3V	C368	1-126-964-11	ELECT	10uF	20.00%	50V
C209	1-126-925-11	ELECT	470uF	20.00%	10V	C369	1-126-961-11	ELECT	2.2uF	20.00%	50V
C212	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	C370	1-126-961-11	ELECT	2.2uF	20.00%	50V
C301	1-126-960-11	ELECT	1uF	20.00%	50V	C371	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C302	1-130-479-00	MYLAR	0.0047uF	5%	50V	C372	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C303	1-136-165-00	MYLAR	0.1uF	5.00%	50V	C373	1-136-157-00	MYLAR	0.022uF	5.00%	50V
C305	1-126-964-11	ELECT	10uF	20.00%	50V	C374	1-126-964-11	ELECT	10uF	20.00%	50V
C306	1-126-960-11	ELECT	1uF	20.00%	50V	C375	1-126-965-11	ELECT	22uF	20.00%	50V
C307	1-126-959-11	ELECT	0.47uF	20.00%	50V	C376	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C308	1-126-964-11	ELECT	10uF	20.00%	50V	C377	1-104-665-11	ELECT	100uF	20.00%	10V
C309	1-137-194-81	MYLAR	0.47uF	5.00%	50V	C378	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C310	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	C379	1-130-483-00	MYLAR	0.01uF	5%	50V
C311	1-126-964-11	ELECT	10uF	20.00%	50V	C380	1-126-964-11	ELECT	10uF	20.00%	50V
C312	1-126-959-11	ELECT	0.47uF	20.00%	50V	C381	1-126-965-11	ELECT	22uF	20.00%	50V
C313	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	C382	1-137-427-11	MYLAR	120PF	5.00%	50V
C314	1-126-964-11	ELECT	10uF	20.00%	50V	C383	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C315	1-126-963-11	ELECT	4.7uF	20.00%	50V	C384	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C316	1-126-933-11	ELECT	100uF	20.00%	16V	C385	1-126-964-11	ELECT	10uF	20.00%	50V
C317	1-104-665-11	ELECT	100uF	20.00%	10V	C410	1-163-233-11	CERAMIC CHIP	18PF	5.00%	50V
C318	1-126-964-11	ELECT	10uF	20.00%	50V	C411	1-163-231-11	CERAMIC CHIP	15PF	5.00%	50V
C319	1-126-961-11	ELECT	2.2uF	20.00%	50V	C414	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C320	1-126-961-11	ELECT	2.2uF	20.00%	50V	C416	1-126-916-11	ELECT	1000uF	20.00%	6.3V
C321	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	C462	1-104-665-11	ELECT	100uF	20.00%	10V
C322	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C464	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C323	1-136-157-00	MYLAR	0.022uF	5.00%	50V	C497	1-126-964-11	ELECT	10uF	20.00%	50V

Ref. No.	Part No.	Description				Remarks	Ref. No.	Part No.	Description				Remarks
C498	1-163-038-91	CERAMIC CHIP	0.1uF		25V		C822	1-126-961-11	ELECT	2.2uF	20.00%	50V	
C501	1-136-165-00	MYLAR	0.1uF	5.00%	50V		C823	1-126-968-11	ELECT	100uF	20.00%	50V	
C502	1-136-165-00	MYLAR	0.1uF	5.00%	50V		VX55:TH						
C503	1-126-964-11	ELECT	10uF	20.00%	50V	C824		1-126-960-11	ELECT	1uF	20.00%	50V	
C504	1-109-953-11	ELECT	2.2uF	20.00%	50V	C841		1-126-959-11	ELECT	0.47uF	20.00%	50V	
						C853		1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C505	1-163-038-91	CERAMIC CHIP	0.1uF		25V								
C601	1-163-031-11	CERAMIC CHIP	0.01uF		50V		C861	1-107-717-11	ELECT	47uF	20.00%	50V	
C603	1-104-664-11	ELECT	47uF	20.00%	16V		C862	1-107-721-11	ELECT	4.7uF	20.00%	100V	
C604	1-163-031-11	CERAMIC CHIP	0.01uF		50V		C863	1-107-721-11	ELECT	4.7uF	20.00%	100V	
C605	1-163-031-11	CERAMIC CHIP	0.01uF		50V		C891	1-126-964-11	ELECT	10uF	20.00%	50V	
							C892	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C607	1-163-031-11	CERAMIC CHIP	0.01uF		50V								
C611	1-104-664-11	ELECT	47uF	20.00%	16V		C901	1-111-235-61	ELECT	10000uF	20.00%	25V	
C612	1-163-031-11	CERAMIC CHIP	0.01uF		50V		C902	1-136-165-00	MYLAR	0.1uF	5.00%	50V	
C613	1-126-960-11	ELECT	1uF	20.00%	50V		C903	1-136-165-00	MYLAR	0.1uF	5.00%	50V	
C614	1-163-031-11	CERAMIC CHIP	0.01uF		50V		C905	1-136-165-00	MYLAR	0.1uF	5.00%	50V	
							C906	1-136-165-00	MYLAR	0.1uF	5.00%	50V	
C615	1-163-031-11	CERAMIC CHIP	0.01uF		50V								
C616	1-163-021-91	CERAMIC CHIP	0.01uF	10.00%	50V		C907	1-126-937-11	ELECT	4700uF	20.00%	16V	
C617	1-163-021-91	CERAMIC CHIP	0.01uF	10.00%	50V		C908	1-126-942-61	ELECT	1000uF	20.00%	25V	
C618	1-126-957-11	ELECT	0.22uF	20.00%	50V		C909	1-126-952-11	ELECT	1000uF	20.00%	35V	
C619	1-163-075-00	CERAMIC CHIP	0.047uF		50V		C911	1-126-960-11	ELECT	1uF	20.00%	50V	
							C912	1-126-917-11	ELECT	3300uF	20.00%	6.3V	
C620	1-126-962-11	ELECT	3.3uF	20.00%	50V								
C621	1-126-962-11	ELECT	3.3uF	20.00%	50V		C921	1-126-960-11	ELECT	1uF	20.00%	50V	
C622	1-104-664-11	ELECT	47uF	20.00%	16V		C922	1-126-933-11	ELECT	100uF	20.00%	16V	
C623	1-126-964-11	ELECT	10uF	20.00%	50V		C925	1-104-665-11	ELECT	100uF	20.00%	10V	
C624	1-126-960-11	ELECT	1uF	20.00%	50V		C931	1-126-964-11	ELECT	10uF	20.00%	50V	
							C932	1-126-935-11	ELECT	470uF	20.00%	16V	
C625	1-163-125-00	CERAMIC CHIP	220PF	5%	50V								
C626	1-104-760-11	CERAMIC CHIP	0.047uF	10.00%	50V		C951	1-126-960-11	ELECT	1uF	20.00%	50V	
C628	1-163-117-00	CERAMIC CHIP	100PF	5%	50V		C961	1-126-960-11	ELECT	1uF	20.00%	50V	
C629	1-126-965-11	ELECT	22uF	20.00%	50V		C962	1-126-926-11	ELECT	1000uF	20.00%	10V	
C630	1-126-964-11	ELECT	10uF	20.00%	50V								
									< FILTER >				
C631	1-163-031-11	CERAMIC CHIP	0.01uF		50V								
C632	1-126-933-11	ELECT	100uF	20.00%	16V		CF601	1-760-023-11	FILTER, CERAMIC				
C633	1-163-031-11	CERAMIC CHIP	0.01uF		50V		CF602	1-760-023-11	FILTER, CERAMIC				
C634	1-163-016-00	CERAMIC CHIP	0.0039uF	10%	50V								
C635	1-163-016-00	CERAMIC CHIP	0.0039uF	10%	50V				< CONNECTOR >				
C636	1-163-021-91	CERAMIC CHIP	0.01uF	10.00%	50V		CN201	1-565-937-11	SOCKET, CONNECTOR 13P				
C637	1-163-021-91	CERAMIC CHIP	0.01uF	10.00%	50V		CN202	1-785-336-11	PIN, CONNECTOR(LIGHT ANGLE)10P				
C641	1-163-031-11	CERAMIC CHIP	0.01uF		50V		* CN301	1-568-449-11	HOUSING, CONNECTOR(PC BOARD)3P				
C644	1-163-087-00	CERAMIC CHIP	4PF		50V		* CN304	1-569-934-11	SOCKET, CONNECTOR 17P				
C645	1-163-031-11	CERAMIC CHIP	0.01uF		50V		CN401	1-793-766-11	CONNECTOR, BOARD TO BOARD 30P				
C651	1-163-239-11	CERAMIC CHIP	33PF	5.00%	50V		* CN891	1-564-506-11	PLUG, CONNECTOR 3P				
C652	1-163-235-11	CERAMIC CHIP	22PF	5.00%	50V		CN901	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P				
C653	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V		CN902	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P				
C655	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V								
C656	1-163-031-11	CERAMIC CHIP	0.01uF		50V				< DIODE >				
C657	1-104-664-11	ELECT	47uF	20.00%	16V		D501	8-719-988-61	DIODE 1SS355TE-17				
C658	1-126-961-11	ELECT	2.2uF	20.00%	50V		D502	8-719-988-61	DIODE 1SS355TE-17				
C659	1-163-031-11	CERAMIC CHIP	0.01uF		50V		D503	8-719-988-61	DIODE 1SS355TE-17				
C660	1-104-664-11	ELECT	47uF	20.00%	16V		D504	8-719-988-61	DIODE 1SS355TE-17				
C661	1-163-031-11	CERAMIC CHIP	0.01uF		50V		D505	8-719-988-61	DIODE 1SS355TE-17				
C662	1-126-959-11	ELECT	0.47uF	20.00%	50V		D506	8-719-988-61	DIODE 1SS355TE-17				
C663	1-163-031-11	CERAMIC CHIP	0.01uF		50V		D508	8-719-988-61	DIODE 1SS355TE-17				
C669	1-163-031-11	CERAMIC CHIP	0.01uF		50V		D509	8-719-988-61	DIODE 1SS355TE-17				
C803	1-163-031-11	CERAMIC CHIP	0.01uF		50V		D510	8-719-988-61	DIODE 1SS355TE-17				
C821	1-104-665-11	ELECT	100uF	20.00%	10V		D511	8-719-988-61	DIODE 1SS355TE-17				

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
D601	8-719-056-83	DIODE UDZ-TE-17-6.8B				< IFT >	
D641	8-719-914-42	DIODE DA204K-T-146		IFT601	1-435-295-11	TRANSFORMER, IF	
D651	8-719-988-61	DIODE 1SS355TE-17				< JACK >	
D801	8-719-988-61	DIODE 1SS355TE-17					
D822	8-719-988-61	DIODE 1SS355TE-17					
D841	8-719-988-61	DIODE 1SS355TE-17		J101	1-793-987-11	JACK, PIN 2P (MD VIDEO)	
D861	8-719-988-61	DIODE 1SS355TE-17				< JUMPER RESISTOR >	
D891	8-719-988-61	DIODE 1SS355TE-17					
D892	8-719-988-61	DIODE 1SS355TE-17		JR1	1-216-296-91	SHORT	0
D901	8-719-200-82	DIODE 11ES2-TB5		JR2	1-216-296-91	SHORT	0
D902	8-719-200-82	DIODE 11ES2-TB5		JR3	1-216-296-91	SHORT	0
D903	8-719-200-82	DIODE 11ES2-TB5		JR4	1-216-296-91	SHORT	0
D904	8-719-200-82	DIODE 11ES2-TB5		JR6	1-216-296-91	SHORT	0
D906	8-719-200-82	DIODE 11ES2-TB5					
D907	8-719-200-82	DIODE 11ES2-TB5		JR7	1-216-296-91	SHORT	0
D908	8-719-200-82	DIODE 11ES2-TB5		JR8	1-216-295-91	SHORT	0
D909	8-719-200-82	DIODE 11ES2-TB5		JR9	1-216-295-91	SHORT	0
D910	8-719-200-82	DIODE 11ES2-TB5		JR10	1-216-296-91	SHORT	0
D911	8-719-200-82	DIODE 11ES2-TB5		JR11	1-216-296-91	SHORT	0
D952	8-719-988-61	DIODE 1SS355TE-17		JR12	1-216-296-91	SHORT	0
D953	8-719-988-61	DIODE 1SS355TE-17		JR13	1-216-296-91	SHORT	0
D957	8-719-988-61	DIODE 1SS355TE-17		JR14	1-216-296-91	SHORT	0
		< FERRITE BEAD >		JR15	1-216-296-91	SHORT	0
FB201	1-216-295-91	SHORT	0	JR16	1-216-295-91	SHORT	0
FB202	1-216-295-91	SHORT	0	JR17	1-216-296-91	SHORT	0
FB203	1-216-295-91	SHORT	0	JR18	1-216-295-91	SHORT	0
FB204	1-216-295-91	SHORT	0	JR19	1-216-296-91	SHORT	0
FB416	1-216-295-91	SHORT	0	JR21	1-216-295-91	SHORT	0
FB462	1-216-295-91	SHORT	0	JR22	1-216-296-91	SHORT	0
FB499	1-216-295-91	SHORT	0				
		< FRONT END >		JR23	1-216-296-91	SHORT	0
FE601	1-693-507-11	FRONT END (FM3) (JE)		JR24	1-216-296-91	SHORT	0
FE602	1-693-478-11	FRONT END (FM3 GANGS) (EXCEPT JE)		JR25	1-216-296-91	SHORT	0
		< IC >		JR26	1-216-296-91	SHORT	0
IC101	8-759-652-04	IC M61504FP-TP		JR27	1-216-296-91	SHORT	0
IC102	8-759-099-06	IC M5218AFP-TE1		JR28	1-216-295-91	SHORT	0
IC103	8-759-652-01	IC LA2615		JR29	1-216-296-91	SHORT	0
IC104	8-759-099-06	IC M5218AFP-TE1		JR30	1-216-296-91	SHORT	0
IC201	8-749-923-04	IC TOTX178A (OPTICAL)		JR31	1-216-295-91	SHORT	0
IC301	8-759-652-80	IC HA12227F		JR32	1-216-296-91	SHORT	0
IC302	8-759-143-54	IC uPC1330HA		JR33	1-216-296-91	SHORT	0
IC303	8-759-656-83	IC NJM4580MD-TE		JR34	1-216-295-91	SHORT	0
IC304	8-759-656-83	IC NJM4580MD-TE		JR35	1-216-296-91	SHORT	0
IC401	8-759-677-43	IC M30622MAA-A60		JR36	1-216-295-91	SHORT	0
IC501	8-759-635-63	IC M51943BSL-TP		JR37	1-216-296-91	SHORT	0
IC601	8-759-652-00	IC BA1450		JR38	1-216-296-91	SHORT	0
IC651	8-759-288-54	IC LC72130		JR39	1-216-296-91	SHORT	0
IC911	8-759-039-69	IC uPC7805AHF		JR41	1-216-296-91	SHORT	0
IC921	8-759-088-08	IC uPC7812AHF		JR42	1-216-295-91	SHORT	0
IC931	8-759-604-86	IC M5F7807L		JR43	1-216-296-91	SHORT	0
IC951	8-759-158-62	IC TA78057S		JR44	1-216-296-91	SHORT	0
IC961	8-759-701-59	IC M5F7809L		JR45	1-216-296-91	SHORT	0
				JR51	1-216-296-91	SHORT	0
				JR52	1-216-296-91	SHORT	0
				JR53	1-216-296-91	SHORT	0
				JR54	1-216-296-91	SHORT	0
				JR140	1-216-296-91	SHORT	0
				JR601	1-216-296-91	SHORT	0 (JE)
				JR602	1-216-295-91	SHORT	0
				JR603	1-216-296-91	SHORT	0

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
JR604	1-216-296-91	SHORT	0	Q503	8-729-113-13	TRANSISTOR	FA1A4M-T1L33
JR605	1-216-296-91	SHORT	0	Q504	8-729-113-69	TRANSISTOR	FN1F4M-T1M32
JR606	1-216-296-91	SHORT	0	Q505	8-729-113-13	TRANSISTOR	FA1A4M-T1L33
JR607	1-216-295-91	SHORT	0	Q601	8-729-201-27	TRANSISTOR	2SC2715Y-TE85L
JR608	1-216-296-91	SHORT	0	Q602	8-729-422-57	TRANSISTOR	BN1A4M-TP
JR609	1-216-296-91	SHORT	0 (JE)	Q611	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
JR611	1-216-296-91	SHORT	0	Q612	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
JR612	1-216-295-91	SHORT	0 (EXCEPT JE)	Q821	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6
JR615	1-216-295-91	SHORT	0	Q822	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6
JR616	1-216-295-91	SHORT	0	Q823	8-729-216-22	TRANSISTOR	2SA812-T1-M5M6
JR617	1-216-295-91	SHORT	0 (JE)	Q824	8-729-113-13	TRANSISTOR	FA1A4M-T1L33
JR618	1-216-295-91	SHORT	0 (JE)	Q825	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6
JR619	1-216-295-91	SHORT	0	Q828	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6
JR632	1-216-295-91	SHORT	0 (EXCEPT JE)	Q829	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6
JR634	1-216-295-91	SHORT	0	Q861	8-729-113-69	TRANSISTOR	FN1F4M-T1M32
JR640	1-216-295-91	SHORT	0	Q862	8-729-107-45	TRANSISTOR	2SC3624A-T1L15L16
JR922	1-216-295-91	SHORT	0	Q863	8-729-107-45	TRANSISTOR	2SC3624A-T1L15L16
JR923	1-216-295-91	SHORT	0	Q891	8-729-140-04	TRANSISTOR	2SB1116-TP-LK
JR924	1-216-295-91	SHORT	0	Q892	8-729-620-05	TRANSISTOR	2SC2603TP-EF
JR927	1-216-295-91	SHORT	0	Q911	8-729-141-83	TRANSISTOR	2SB1375
JR928	1-216-295-91	SHORT	0	Q912	8-729-113-13	TRANSISTOR	FA1A4M-T1L33
< COIL >				< RESISTOR >			
L201	1-414-189-31	INDUCTOR	100uH	R101	1-216-049-91	RES-CHIP	1K 5% 1/10W
L301	1-410-780-11	INDUCTOR	27MH	R105	1-216-097-91	RES-CHIP	100K 5% 1/10W
L302	1-414-193-41	INDUCTOR	220uH	R107	1-216-254-00	RES-CHIP	220K 5% 1/8W
L303	1-414-193-41	INDUCTOR	220uH	R108	1-216-097-91	RES-CHIP	100K 5% 1/10W
L351	1-410-780-11	INDUCTOR	27MH	R109	1-216-073-00	METAL CHIP	10K 5% 1/10W
L642	1-216-296-91	SHORT	0	R110	1-216-045-00	METAL CHIP	680 5% 1/10W
< FILTER >				R111	1-216-073-00	METAL CHIP	10K 5% 1/10W
LPF601	1-234-458-11	FILTER, LOW PASS (EXCEPT JE)		R112	1-216-089-91	RES-CHIP	47K 5% 1/10W
LPF602	1-234-458-11	FILTER, LOW PASS (EXCEPT JE)		R113	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
< TRANSISTOR >				R114	1-216-097-91	RES-CHIP	100K 5% 1/10W
Q101	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6	R115	1-216-073-00	METAL CHIP	10K 5% 1/10W
Q102	8-729-144-85	TRANSISTOR	2SK1133-T1B	R116	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q103	8-729-107-45	TRANSISTOR	2SC3624A-T1L15L16	R121	1-216-224-91	RES-CHIP	12K 5% 1/8W
Q141	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6	R122	1-216-073-00	METAL CHIP	10K 5% 1/10W
Q151	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6	R123	1-216-073-00	METAL CHIP	10K 5% 1/10W
Q152	8-729-144-85	TRANSISTOR	2SK1133-T1B	R124	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q153	8-729-107-45	TRANSISTOR	2SC3624A-T1L15L16	R125	1-216-073-00	METAL CHIP	10K 5% 1/10W
Q301	8-729-801-93	TRANSISTOR	2SD1387-34-TP	R132	1-216-025-91	RES-CHIP	100 5% 1/10W
Q302	8-729-142-46	TRANSISTOR	2SC2001TP-LK	R133	1-216-025-91	RES-CHIP	100 5% 1/10W
Q303	8-729-142-46	TRANSISTOR	2SC2001TP-LK	R134	1-216-049-91	RES-CHIP	1K 5% 1/10W
Q304	8-729-113-69	TRANSISTOR	FN1F4M-T1M32	R141	1-216-049-91	RES-CHIP	1K 5% 1/10W
Q305	8-729-113-13	TRANSISTOR	FA1A4M-T1L33	R142	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
Q391	8-729-140-04	TRANSISTOR	2SB1116-TP-LK	R143	1-216-089-91	RES-CHIP	47K 5% 1/10W
Q392	8-729-113-13	TRANSISTOR	FA1A4M-T1L33	R144	1-216-295-91	SHORT	0
Q393	8-729-140-04	TRANSISTOR	2SB1116-TP-LK	R145	1-216-041-00	METAL CHIP	470 5% 1/10W
Q394	8-729-113-13	TRANSISTOR	FA1A4M-T1L33	R146	1-216-041-00	METAL CHIP	470 5% 1/10W
Q395	8-729-113-13	TRANSISTOR	FA1A4M-T1L33	R147	1-216-041-00	METAL CHIP	470 5% 1/10W
Q396	8-729-116-57	TRANSISTOR	2SB1068TP-K	R151	1-216-049-91	RES-CHIP	1K 5% 1/10W
Q397	8-729-113-13	TRANSISTOR	FA1A4M-T1L33	R153	1-216-073-00	METAL CHIP	10K 5% 1/10W
Q501	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6	R154	1-216-073-00	METAL CHIP	10K 5% 1/10W
				R155	1-216-097-91	RES-CHIP	100K 5% 1/10W
				R157	1-216-105-91	RES-CHIP	220K 5% 1/10W
				R158	1-216-097-91	RES-CHIP	100K 5% 1/10W
				R159	1-216-073-00	METAL CHIP	10K 5% 1/10W
				R160	1-216-045-00	METAL CHIP	680 5% 1/10W

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R161	1-216-222-00	RES-CHIP	10K	5%	1/8W	R352	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R162	1-216-089-91	RES-CHIP	47K	5%	1/10W	R353	1-216-025-91	RES-CHIP	100	5%	1/10W
R163	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R354	1-216-025-91	RES-CHIP	100	5%	1/10W
R164	1-216-097-91	RES-CHIP	100K	5%	1/10W	R355	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R165	1-216-073-00	METAL CHIP	10K	5%	1/10W	R356	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R166	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R357	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R171	1-216-075-00	METAL CHIP	12K	5%	1/10W	R358	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R172	1-216-073-00	METAL CHIP	10K	5%	1/10W	R359	1-216-085-00	METAL CHIP	33K	5%	1/10W
R173	1-216-073-00	METAL CHIP	10K	5%	1/10W	R360	1-216-045-00	METAL CHIP	680	5%	1/10W
R175	1-216-073-00	METAL CHIP	10K	5%	1/10W	R361	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R181	1-216-049-91	RES-CHIP	1K	5%	1/10W	R363	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R182	1-216-049-91	RES-CHIP	1K	5%	1/10W	R364	1-216-045-00	METAL CHIP	680	5%	1/10W
R201	1-216-025-91	RES-CHIP	100	5%	1/10W	R366	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R202	1-216-085-00	METAL CHIP	33K	5%	1/10W	R367	1-216-089-91	RES-CHIP	47K	5%	1/10W
R203	1-216-025-91	RES-CHIP	100	5%	1/10W	R368	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R204	1-216-085-00	METAL CHIP	33K	5%	1/10W	R369	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R205	1-216-295-91	SHORT	0			R371	1-216-238-91	RES-CHIP	47K	5%	1/8W
R301	1-216-085-00	METAL CHIP	33K	5%	1/10W	R372	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R302	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R373	1-216-049-91	RES-CHIP	1K	5%	1/10W
R303	1-216-025-91	RES-CHIP	100	5%	1/10W	R374	1-216-089-91	RES-CHIP	47K	5%	1/10W
R304	1-216-025-91	RES-CHIP	100	5%	1/10W	R375	1-216-094-00	RES-CHIP	75K	5%	1/10W
R305	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R376	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R306	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	R377	1-216-089-91	RES-CHIP	47K	5%	1/10W
R307	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R378	1-216-094-00	RES-CHIP	75K	5%	1/10W
R308	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	R381	1-216-099-00	METAL CHIP	120K	5%	1/10W
R309	1-216-081-00	METAL CHIP	22K	5%	1/10W	R382	1-216-025-91	RES-CHIP	100	5%	1/10W
R311	1-216-121-91	RES-CHIP	1M	5%	1/10W	R383	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R312	1-216-102-00	RES-CHIP	160K	5%	1/10W	R384	1-216-100-00	RES-CHIP	130K	5%	1/10W
R313	1-216-097-91	RES-CHIP	100K	5%	1/10W	R385	1-216-296-91	SHORT	0		
R315	1-216-073-00	METAL CHIP	10K	5%	1/10W	R386	1-216-099-00	METAL CHIP	120K	5%	1/10W
R316	1-216-234-00	RES-CHIP	33K	5%	1/8W (EXCEPT VX55:TH)	R387	1-216-033-00	METAL CHIP	220	5%	1/10W
R316	1-216-235-00	RES-CHIP	36K	5%	1/8W (VX55:TH)	R388	1-216-081-00	METAL CHIP	22K	5%	1/10W
R317	1-216-222-00	RES-CHIP	10K	5%	1/8W	R389	1-216-075-00	METAL CHIP	12K	5%	1/10W
R318	1-216-073-00	METAL CHIP	10K	5%	1/10W	R390	1-216-107-00	METAL CHIP	270K	5%	1/10W
R319	1-216-111-00	METAL CHIP	390K	5%	1/10W	R391	1-216-296-91	SHORT	0		
R320	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R392	1-216-075-00	METAL CHIP	12K	5%	1/10W
R321	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	R393	1-216-081-00	METAL CHIP	22K	5%	1/10W
R331	1-216-099-00	METAL CHIP	120K	5%	1/10W	R394	1-216-033-00	METAL CHIP	220	5%	1/10W
R332	1-216-025-91	RES-CHIP	100	5%	1/10W	R396	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R333	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	R407	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R334	1-216-100-00	RES-CHIP	130K	5%	1/10W	R409	1-216-295-91	SHORT	0		
R335	1-216-033-00	METAL CHIP	220	5%	1/10W	R411	1-216-109-00	METAL CHIP	330K	5%	1/10W
R336	1-216-099-00	METAL CHIP	120K	5%	1/10W	R413	1-216-295-91	SHORT	0		
R337	1-216-033-00	METAL CHIP	220	5%	1/10W	R417	1-216-073-00	METAL CHIP	10K	5%	1/10W
R338	1-216-081-00	METAL CHIP	22K	5%	1/10W	R418	1-216-025-91	RES-CHIP	100	5%	1/10W
R339	1-216-075-00	METAL CHIP	12K	5%	1/10W	R429	1-216-025-91	RES-CHIP	100	5%	1/10W
R340	1-216-107-00	METAL CHIP	270K	5%	1/10W	R430	1-216-025-91	RES-CHIP	100	5%	1/10W
R341	1-216-033-00	METAL CHIP	220	5%	1/10W	R431	1-216-295-91	SHORT	0		
R342	1-216-075-00	METAL CHIP	12K	5%	1/10W	R434	1-216-295-91	SHORT	0		
R343	1-219-787-17	FUSIBLE	5.6	5%	1/4W	R443	1-216-295-91	SHORT	0		
R344	1-219-787-17	FUSIBLE	5.6	5%	1/4W	R444	1-216-295-91	SHORT	0		
R345	1-216-079-00	METAL CHIP	18K	5%	1/10W	R445	1-216-295-91	SHORT	0		
R346	1-216-079-00	METAL CHIP	18K	5%	1/10W	R446	1-216-295-91	SHORT	0		
R347	1-216-073-00	METAL CHIP	10K	5%	1/10W	R447	1-216-295-91	SHORT	0		
R351	1-216-085-00	METAL CHIP	33K	5%	1/10W	R448	1-216-295-91	SHORT	0		
						R449	1-216-295-91	SHORT	0		
						R467	1-216-295-91	SHORT	0		
						R468	1-216-295-91	SHORT	0		
						R469	1-216-295-91	SHORT	0		
						R483	1-216-073-00	METAL CHIP	10K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remarks
R484	1-216-073-00	METAL CHIP	10K	5%	1/10W
R490	1-216-174-00	RES-CHIP	100	5%	1/8W
R491	1-216-174-00	RES-CHIP	100	5%	1/8W
R493	1-216-174-00	RES-CHIP	100	5%	1/8W
R494	1-216-295-91	SHORT	0		
R495	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R496	1-216-089-91	RES-CHIP	47K	5%	1/10W
R497	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R497	1-216-061-00	METAL CHIP	3.3K	5%	(JE) (VX55:E,IA,TW,TH,HK,SP,MY/VX55J:JE)
R497	1-216-073-00	METAL CHIP	10K	5%	(JE) (VX55:EA/VX55J:EA)
R498	1-216-089-91	RES-CHIP	47K	5%	1/10W
R499	1-216-025-91	RES-CHIP	100	5%	1/10W
R501	1-216-073-00	METAL CHIP	10K	5%	1/10W
R502	1-216-089-91	RES-CHIP	47K	5%	1/10W
R503	1-216-089-91	RES-CHIP	47K	5%	1/10W
R504	1-216-025-91	RES-CHIP	100	5%	1/10W
R505	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R506	1-216-041-00	METAL CHIP	470	5%	1/10W
R508	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R509	1-216-081-00	METAL CHIP	22K	5%	1/10W
R510	1-216-097-91	RES-CHIP	100K	5%	1/10W
R523	1-216-073-00	METAL CHIP	10K	5%	1/10W
R524	1-216-073-00	METAL CHIP	10K	5%	1/10W
R546	1-216-073-00	METAL CHIP	10K	5%	1/10W
R547	1-216-073-00	METAL CHIP	10K	5%	1/10W
R548	1-216-073-00	METAL CHIP	10K	5%	1/10W
R566	1-216-073-00	METAL CHIP	10K	5%	1/10W
R601	1-216-295-91	SHORT	0 (JE)		
R602	1-216-029-00	METAL CHIP	150	5%	1/10W
R603	1-216-045-00	METAL CHIP	680	5%	1/10W
R603	1-216-037-00	METAL CHIP	330	5%	1/10W (JE)
R604	1-216-017-91	RES-CHIP	47	5%	1/10W
R605	1-216-045-00	METAL CHIP	680	5%	1/10W
R606	1-216-037-00	METAL CHIP	330	5%	1/10W
R607	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R608	1-216-017-91	RES-CHIP	47	5%	1/10W
R609	1-216-295-91	SHORT	0		
R610	1-216-045-00	METAL CHIP	680	5%	1/10W
R611	1-216-182-00	RES-CHIP	220	5%	1/8W
R612	1-216-214-00	RES-CHIP	4.7K	5%	1/8W
R613	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R614	1-216-041-00	METAL CHIP	470	5%	1/10W
R615	1-216-049-91	RES-CHIP	1K	5%	1/10W
R616	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R617	1-216-041-00	METAL CHIP	470	5%	1/10W
R618	1-216-049-91	RES-CHIP	1K	5%	1/10W
R619	1-216-025-91	RES-CHIP	100	5%	1/10W
R620	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R621	1-216-075-00	METAL CHIP	12K	5%	1/10W
R622	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R623	1-216-073-00	METAL CHIP	10K	5%	1/10W
R624	1-216-073-00	METAL CHIP	10K	5%	1/10W
R625	1-216-073-00	METAL CHIP	10K	5%	1/10W
R641	1-216-097-91	RES-CHIP	100K	5%	1/10W
R642	1-216-073-00	METAL CHIP	10K	5%	1/10W
R655	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R656	1-216-222-00	RES-CHIP	10K	5%	1/8W
R658	1-216-174-00	RES-CHIP	100	5%	1/8W
R659	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R660	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R661	1-216-025-91	RES-CHIP	100	5%	1/10W
R662	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R663	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R664	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R665	1-216-025-91	RES-CHIP	100	5%	1/10W
R666	1-216-073-00	METAL CHIP	10K	5%	1/10W
R667	1-216-222-00	RES-CHIP	10K	5%	1/8W
R668	1-216-049-91	RES-CHIP	1K	5%	1/10W
R669	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R804	1-216-089-91	RES-CHIP	47K	5%	1/10W
R821	1-216-238-91	RES-CHIP	47K	5%	1/8W
R822	1-216-240-00	RES-CHIP	56K	5%	1/8W
R823	1-216-222-00	RES-CHIP	10K	5%	1/8W
R824	1-216-073-00	METAL CHIP	10K	5%	1/10W
R825	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R826	1-216-085-00	METAL CHIP	33K	5%	1/10W
R827	1-216-081-00	METAL CHIP	22K	5%	1/10W
R829	1-216-230-00	RES-CHIP	22K	5%	1/8W
R831	1-216-216-00	RES-CHIP	5.6K	5%	1/8W
R841	1-216-081-00	METAL CHIP	22K	5%	1/10W
R842	1-216-081-00	METAL CHIP	22K	5%	1/10W
R843	1-216-214-00	RES-CHIP	4.7K	5%	1/8W
R844	1-216-097-91	RES-CHIP	100K	5%	1/10W
R845	1-216-121-91	RES-CHIP	1M	5%	1/10W
R854	1-216-089-91	RES-CHIP	47K	5%	1/10W
R861	1-216-049-91	RES-CHIP	1K	5%	1/10W
R862	1-216-073-00	METAL CHIP	10K	5%	1/10W
R863	1-216-089-91	RES-CHIP	47K	5%	1/10W
R864	1-216-049-91	RES-CHIP	1K	5%	1/10W
R865	1-216-049-91	RES-CHIP	1K	5%	1/10W
R866	1-216-019-00	METAL CHIP	56	5%	1/10W
R868	1-215-891-11	METAL OXIDE	680	5%	2W
R869	1-215-891-11	METAL OXIDE	680	5%	2W
R891	1-216-222-00	RES-CHIP	10K	5%	1/8W
R892	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R893	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R911	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R912	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R914	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
△ R915	1-219-591-11	FUSIBLE	0.1	5%	1/2W
△ R916	1-219-119-11	FUSIBLE	0.1	5%	1/4W
R966	1-216-019-00	METAL CHIP	56	5%	1/10W
< COMPOSITION CIRCUIT BLOCK >					
RB641	1-234-457-11	ENCAPSULATED COMPONENT			
< VARIABLE RESISTOR >					
RV301	1-241-764-11	RES, ADJ, CARBON 10K			
RV302	1-241-762-11	RES, ADJ, CARBON 2.2K			
RV303	1-241-762-11	RES, ADJ, CARBON 2.2K			
RV304	1-241-768-11	RES, ADJ, CARBON 220K			
RV351	1-241-764-11	RES, ADJ, CARBON 10K			

The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
RV352	1-241-762-11	RES, ADJ, CARBON 2.2K		C611	1-126-157-11	ELECT 10uF 20% 16V	
RV353	1-241-762-11	RES, ADJ, CARBON 2.2K		C612	1-162-303-11	CERAMIC 0.0033uF 30.00% 16V	
RV354	1-241-768-11	RES, ADJ, CARBON 220K		C613	1-126-157-11	ELECT 10uF 20% 16V	
RV611	1-241-765-11	RES, ADJ, CARBON 22K		C614	1-126-157-11	ELECT 10uF 20% 16V	
		< RELAY >		C615	1-126-963-11	ELECT 4.7uF 20.00% 50V	
RY801	1-755-373-11	RELAY		C616	1-162-306-11	CERAMIC 0.01uF 30.00% 16V	
		< TRANSFORMER >		C620	1-126-933-11	ELECT 100uF 20.00% 16V	
T301	1-423-980-11	TRANSFORMER, BIAS OSCILLATION		C621	1-104-664-11	ELECT 47uF 20.00% 16V	
T601	1-435-195-11	TRANSFORMER, DISCRIMINATOR		C631	1-162-294-31	CERAMIC 0.001uF 10% 50V	
		< TERMINAL >		C632	1-162-294-31	CERAMIC 0.001uF 10% 50V	
TM601	1-694-555-11	TERMINAL BOARD (4P) (FM/AM)		C633	1-164-159-21	CERAMIC 0.1uF 50V	
TM801	1-694-635-11	TERMINAL BOARD (4P) (SPEAKER)		C651	1-164-159-21	CERAMIC 0.1uF 50V	
		< VIBRATOR >		C652	1-126-960-11	ELECT 1uF 20.00% 50V	
X401	1-567-098-41	VIBRATOR, CRYSTAL 32.768KHz		C653	1-126-960-11	ELECT 1uF 20.00% 50V	
X402	1-781-107-21	VIBRATOR, SERAMIC 16MHZ		C654	1-164-159-21	CERAMIC 0.1uF 50V	
X651	1-760-549-31	VIBRATOR, CRYSTAL 4.5MHZ		C655	1-162-282-31	CERAMIC 100PF 10% 50V	
*****				C656	1-162-282-31	CERAMIC 100PF 10% 50V	
	1-675-910-11	MOTOR BOARD		C657	1-162-282-31	CERAMIC 100PF 10% 50V	
		*****		C658	1-162-282-31	CERAMIC 100PF 10% 50V	
		< CAPACITOR >		C659	1-162-282-31	CERAMIC 100PF 10% 50V	
C721	1-162-306-11	CERAMIC 0.01uF 30.00% 16V		C660	1-162-282-31	CERAMIC 100PF 10% 50V	
		< CONNECTOR >		C661	1-162-282-31	CERAMIC 100PF 10% 50V	
CN721	1-770-516-31	CONNECTOR, FFC 8P		C662	1-162-282-31	CERAMIC 100PF 10% 50V	
CN722	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE)4P		C663	1-162-282-31	CERAMIC 100PF 10% 50V	
		< SWITCH >		C664	1-162-282-31	CERAMIC 100PF 10% 50V	
S701	1-771-822-11	SWITCH, LEVER (SLIDE)		C665	1-162-282-31	CERAMIC 100PF 10% 50V	
*****				C666	1-162-282-31	CERAMIC 100PF 10% 50V	
A-4428-457-A	PANEL BOARD, COMPLETE			C667	1-162-282-31	CERAMIC 100PF 10% 50V	
	(VX55:E,IA,EA,TW,HK,SP,MY/VX55J:JE)			C668	1-162-282-31	CERAMIC 100PF 10% 50V	
	*****			C669	1-162-282-31	CERAMIC 100PF 10% 50V	
A-4428-980-A	PANEL BOARD, COMPLETE(VX55:TH)			C670	1-162-282-31	CERAMIC 100PF 10% 50V	
	*****			C671	1-162-282-31	CERAMIC 100PF 10% 50V	
A-4473-160-A	PANEL BOARD, COMPLETE(VX55J:EA)			C717	1-126-157-11	ELECT 10uF 20% 16V	
	*****			C718	1-126-157-11	ELECT 10uF 20% 16V	
4-224-584-11	HOLDER(FL)			C719	1-126-961-11	ELECT 2.2uF 20.00% 50V	
	< CAPACITOR >			C720	1-164-159-21	CERAMIC 0.1uF 50V	
C601	1-124-589-11	ELECT 47uF 20% 16V		C721	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C602	1-126-163-11	ELECT 4.7uF 20% 50V		C722	1-162-305-11	CERAMIC 0.0068uF 30.00% 16V	
C603	1-162-306-11	CERAMIC 0.01uF 30.00% 16V		C723	1-126-960-11	ELECT 1uF 20.00% 50V	
C604	1-162-294-31	CERAMIC 0.001uF 10% 50V		C724	1-136-495-11	MYLAR 0.068uF 5.00% 50V	
C605	1-162-306-11	CERAMIC 0.01uF 30.00% 16V		C725	1-126-959-11	ELECT 0.47uF 20.00% 50V	
C606	1-162-294-31	CERAMIC 0.001uF 10% 50V		C726	1-124-465-00	ELECT 0.47uF 20% 50V	
C607	1-104-664-11	ELECT 47uF 20.00% 10V		C727	1-136-167-00	MYLAR 0.15uF 5.00% 50V	
C608	1-162-306-11	CERAMIC 0.01uF 30.00% 16V		C728	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C609	1-162-306-11	CERAMIC 0.01uF 30.00% 16V		C729	1-126-960-11	ELECT 1uF 20.00% 50V	
C610	1-126-157-11	ELECT 10uF 20% 16V		C730	1-161-494-00	CERAMIC 0.022uF 25V	
				C731	1-162-305-11	CERAMIC 0.0068uF 30.00% 16V	
				C732	1-136-495-11	MYLAR 0.068uF 5.00% 50V	
				C733	1-104-664-11	ELECT 47uF 20.00% 10V	
				C734	1-124-589-11	ELECT 47uF 20% 16V	
				C735	1-124-257-00	ELECT 2.2uF 20% 50V	
				C736	1-126-964-11	ELECT 10uF 20.00% 50V	
				C737	1-126-964-11	ELECT 10uF 20.00% 50V	
				C738	1-126-961-11	ELECT 2.2uF 20.00% 50V	
				C739	1-162-215-31	CERAMIC 47PF 5% 50V	
				C740	1-162-282-31	CERAMIC 100PF 10% 50V	
				C741	1-124-463-00	ELECT 0.1uF 20% 50V	
				C742	1-162-215-31	CERAMIC 47PF 5% 50V	
				C743	1-162-290-31	CERAMIC 470PF 10% 50V	
				C744	1-162-294-31	CERAMIC 0.001uF 10% 50V	

PANEL

Ref. No.	Part No.	Description			Remarks
C745	1-126-961-11	ELECT	2.2uF	20.00%	50V
C746	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C747	1-126-961-11	ELECT	2.2uF	20.00%	50V
C748	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C749	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C750	1-162-282-31	CERAMIC	100PF	10%	50V
C751	1-162-282-31	CERAMIC	100PF	10%	50V
C752	1-162-282-31	CERAMIC	100PF	10%	50V
C753	1-162-282-31	CERAMIC	100PF	10%	50V
C754	1-162-282-31	CERAMIC	100PF	10%	50V
C755	1-162-282-31	CERAMIC	100PF	10%	50V
C756	1-162-282-31	CERAMIC	100PF	10%	50V
C757	1-162-282-31	CERAMIC	100PF	10%	50V
C758	1-162-282-31	CERAMIC	100PF	10%	50V
C759	1-162-282-31	CERAMIC	100PF	10%	50V
C760	1-162-282-31	CERAMIC	100PF	10%	50V
C761	1-162-282-31	CERAMIC	100PF	10%	50V
C762	1-162-282-31	CERAMIC	100PF	10%	50V
C763	1-162-282-31	CERAMIC	100PF	10%	50V
C764	1-162-282-31	CERAMIC	100PF	10%	50V
C765	1-162-282-31	CERAMIC	100PF	10%	50V
C766	1-162-282-31	CERAMIC	100PF	10%	50V
C767	1-162-282-31	CERAMIC	100PF	10%	50V
C768	1-162-282-31	CERAMIC	100PF	10%	50V
C769	1-162-282-31	CERAMIC	100PF	10%	50V
C770	1-162-282-31	CERAMIC	100PF	10%	50V
C771	1-162-282-31	CERAMIC	100PF	10%	50V
C772	1-162-282-31	CERAMIC	100PF	10%	50V
C773	1-162-282-31	CERAMIC	100PF	10%	50V
C774	1-162-282-31	CERAMIC	100PF	10%	50V
C775	1-162-282-31	CERAMIC	100PF	10%	50V
C776	1-162-282-31	CERAMIC	100PF	10%	50V
C777	1-162-282-31	CERAMIC	100PF	10%	50V
C778	1-162-282-31	CERAMIC	100PF	10%	50V
C779	1-162-282-31	CERAMIC	100PF	10%	50V
C780	1-162-282-31	CERAMIC	100PF	10%	50V
C781	1-162-282-31	CERAMIC	100PF	10%	50V
C782	1-162-282-31	CERAMIC	100PF	10%	50V
C783	1-162-282-31	CERAMIC	100PF	10%	50V
C784	1-162-282-31	CERAMIC	100PF	10%	50V
< CONNECTOR >					
CN601	1-793-767-11	CONNECTOR, BOARD TO BOARD 30P			
* CN602	1-568-936-11	PIN, CONNECTOR 9P			
< DIODE >					
D601	8-719-057-30	DIODE HLMF-K205-2UL (POWER)			
D602	8-719-063-93	DIODE SLR325VC-N-T32 (TIMER SELECT)			
D603	8-719-109-89	DIODE MTZJ-T-77-5.6C			
D605	8-719-109-85	DIODE MTZJ-T-77-5.1B			
D611	8-719-071-41	DIODE SELS5923C-TP15 (GROOVE)			
D612	8-719-071-41	DIODE SELS5923C-TP15 (CURSOL)			
D613	8-719-071-41	DIODE SELS5923C-TP15 (CURSOL)			
D614	8-719-071-41	DIODE SELS5923C-TP15 (V-GROOVE)			
D615	8-719-072-82	DIODE SELU5E20C-STP15 (FUNCTION)			
D617	8-719-063-93	DIODE SLR325VC-N-T32(REC/PAUSE)			
D618	8-719-071-41	DIODE SELS5923C-TP15 (SURROUND)			

Ref. No.	Part No.	Description	Remarks		
< FERRITE BEAD >					
FB601	1-412-473-21	INDUCTOR	0UH		
FB602	1-412-473-21	INDUCTOR	0UH		
FB603	1-412-473-21	INDUCTOR	0UH		
< FILTER >					
FL601	1-517-928-11	INDICATOR TUBE, FLUORESCENT			
< IC >					
IC601	8-759-652-49	IC TMP88CP77F-1A22			
IC602	8-759-570-21	IC BA3830F-E2			
IC603	8-759-648-23	IC RPM6940-H4 (SIRCS)			
IC721	8-759-496-40	IC M65850FP			
IC722	8-759-634-51	IC M5218AP			
< JACK >					
J631	1-785-569-11	JACK (SMALL TYPE) (PHONE)			
J721	1-785-569-11	JACK (SMALL TYPE) (MIC 1)			
J722	1-785-569-11	JACK (SMALL TYPE) (MIC 2)			
< COIL >					
L601	1-410-509-11	INDUCTOR	10uH		
< TRANSISTOR >					
Q604	8-729-900-80	TRANSISTOR	BA1A4M-TP		
Q605	8-729-900-80	TRANSISTOR	BA1A4M-TP		
Q606	8-729-900-74	TRANSISTOR	BA1L3Z-TP		
Q607	8-729-900-74	TRANSISTOR	BA1L3Z-TP		
Q608	8-729-900-74	TRANSISTOR	BA1L3Z-TP		
Q609	8-729-900-74	TRANSISTOR	BA1L3Z-TP		
Q610	8-729-900-74	TRANSISTOR	BA1L3Z-TP		
Q611	8-729-900-74	TRANSISTOR	BA1L3Z-TP		
Q612	8-729-900-74	TRANSISTOR	BA1L3Z-TP		
Q613	8-729-900-74	TRANSISTOR	BA1L3Z-TP		
Q614	8-729-900-74	TRANSISTOR	BA1L3Z-TP		
Q615	8-729-111-29	TRANSISTOR	2SD1616A-TP-LK		
Q621	8-729-900-80	TRANSISTOR	BA1A4M-TP		
Q622	8-729-900-80	TRANSISTOR	BA1A4M-TP		
Q623	8-729-900-80	TRANSISTOR	BA1A4M-TP		
Q624	8-729-900-80	TRANSISTOR	BA1A4M-TP		
Q625	8-729-900-80	TRANSISTOR	BA1A4M-TP		
Q626	8-729-900-80	TRANSISTOR	BA1A4M-TP		
Q721	8-729-119-79	TRANSISTOR	2SC2785TP-FEK		
< RESISTOR >					
R603	1-249-429-11	CARBON	10K	5%	1/4W
R604	1-247-807-31	CARBON	100	5%	1/4W
R605	1-247-903-00	CARBON	1M	5%	1/4W
R606	1-247-807-31	CARBON	100	5%	1/4W
R607	1-249-429-11	CARBON	10K	5%	1/4W
R608	1-247-807-31	CARBON	100	5%	1/4W
R609	1-249-429-11	CARBON	10K	5%	1/4W
R610	1-247-807-31	CARBON	100	5%	1/4W
R611	1-249-429-11	CARBON	10K	5%	1/4W
R612	1-249-401-11	CARBON	47	5%	1/4W

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R613	1-247-893-11	CARBON	390K	5%	1/4W	R681	1-249-411-11	CARBON	330	5%	1/4W
R614	1-247-893-11	CARBON	390K	5%	1/4W	R682	1-249-413-11	CARBON	470	5%	1/4W F
R615	1-249-441-11	CARBON	100K	5%	1/4W	R683	1-249-414-11	CARBON	560	5%	1/4W F
R616	1-249-440-11	CARBON	82K	5%	1/4W	R684	1-249-415-11	CARBON	680	5%	1/4W F
R617	1-249-429-11	CARBON	10K	5%	1/4W	R693	1-249-429-11	CARBON	10K	5%	1/4W
R618	1-249-441-11	CARBON	100K	5%	1/4W	R694	1-249-429-11	CARBON	10K	5%	1/4W
R619	1-249-441-11	CARBON	100K	5%	1/4W	R695	1-249-429-11	CARBON	10K	5%	1/4W
R620	1-249-437-11	CARBON	47K	5%	1/4W	R696	1-249-429-11	CARBON	10K	5%	1/4W
R621	1-249-440-11	CARBON	82K	5%	1/4W	R701	1-247-815-91	CARBON	220	5%	1/4W
R622	1-249-429-11	CARBON	10K	5%	1/4W	R702	1-249-407-11	CARBON	150	5%	1/4W F
R623	1-249-431-11	CARBON	15K	5%	1/4W	R703	1-247-815-91	CARBON	220	5%	1/4W
R625	1-249-435-11	CARBON	33K	5%	1/4W	R704	1-249-411-11	CARBON	330	5%	1/4W
R626	1-247-895-91	CARBON	470K	5%	1/4W	R705	1-249-410-11	CARBON	270	5%	1/4W F
R633	1-249-411-11	CARBON	330	5%	1/4W	R706	1-247-815-91	CARBON	220	5%	1/4W
R634	1-249-407-11	CARBON	150	5%	1/4W F	R721	1-260-099-11	CARBON	1K	5%	1/2W
R635	1-249-401-11	CARBON	47	5%	1/4W F	R722	1-260-100-11	CARBON	1.2K	5%	1/2W
R636	1-249-441-11	CARBON	100K	5%	1/4W	R723	1-247-863-91	CARBON	22K	5%	1/4W
R637	1-249-441-11	CARBON	100K	5%	1/4W	R724	1-247-863-91	CARBON	22K	5%	1/4W
R638	1-249-441-11	CARBON	100K	5%	1/4W	R725	1-247-863-91	CARBON	22K	5%	1/4W
R639	1-249-441-11	CARBON	100K	5%	1/4W	R726	1-249-437-11	CARBON	47K	5%	1/4W
R640	1-249-441-11	CARBON	100K	5%	1/4W	R727	1-247-863-91	CARBON	22K	5%	1/4W
R641	1-249-441-11	CARBON	100K	5%	1/4W	R728	1-249-429-11	CARBON	10K	5%	1/4W
R642	1-249-441-11	CARBON	100K	5%	1/4W	R729	1-247-863-91	CARBON	22K	5%	1/4W
R643	1-249-441-11	CARBON	100K	5%	1/4W	R730	1-247-863-91	CARBON	22K	5%	1/4W
R644	1-249-441-11	CARBON	100K	5%	1/4W	R731	1-247-881-00	CARBON	120K	5%	1/4W
R651	1-249-429-11	CARBON	10K	5%	1/4W	R732	1-249-417-11	CARBON	1K	5%	1/4W F
R652	1-249-410-11	CARBON	270	5%	1/4W F	R733	1-249-429-11	CARBON	10K	5%	1/4W
R653	1-249-411-11	CARBON	330	5%	1/4W	R734	1-247-807-31	CARBON	100	5%	1/4W
R654	1-249-413-11	CARBON	470	5%	1/4W F	R735	1-247-885-00	CARBON	180K	5%	1/4W
R655	1-249-415-11	CARBON	680	5%	1/4W F	R736	1-249-429-11	CARBON	10K	5%	1/4W
R656	1-249-417-11	CARBON	1K	5%	1/4W F	R737	1-249-437-11	CARBON	47K	5%	1/4W
R657	1-249-418-11	CARBON	1.2K	5%	1/4W F	R738	1-249-417-11	CARBON	1K	5%	1/4W F
R658	1-249-418-11	CARBON	1.2K	5%	1/4W F	R739	1-249-441-11	CARBON	100K	5%	1/4W
R659	1-249-417-11	CARBON	1K	5%	1/4W F	R740	1-249-417-11	CARBON	1K	5%	1/4W F
R660	1-249-420-11	CARBON	1.8K	5%	1/4W F	R741	1-249-429-11	CARBON	10K	5%	1/4W
R661	1-247-843-11	CARBON	3.3K	5%	1/4W	R742	1-249-417-11	CARBON	1K	5%	1/4W F
R662	1-249-425-11	CARBON	4.7K	5%	1/4W F	R744	1-249-441-11	CARBON	100K	5%	1/4W
R663	1-249-427-11	CARBON	6.8K	5%	1/4W F	R745	1-247-807-31	CARBON	100	5%	1/4W
R664	1-249-429-11	CARBON	10K	5%	1/4W	R746	1-249-417-11	CARBON	1K	5%	1/4W F
R665	1-249-410-11	CARBON	270	5%	1/4W F	R747	1-260-093-11	CARBON	330	5%	1/2W
R666	1-249-411-11	CARBON	330	5%	1/4W	< VARIABLE RESISTOR >					
R667	1-249-413-11	CARBON	470	5%	1/4W F	RV721	1-225-739-11	RES, VAR CARBON 50K (ECHO)			
R668	1-249-414-11	CARBON	560	5%	1/4W F	RV722	1-225-739-11	RES, VAR CARBON 50K (MIC)			
R669	1-249-414-11	CARBON	560	5%	1/4W F	< SWITCH >					
R670	1-249-415-11	CARBON	680	5%	1/4W F	S601	1-418-725-11	ENCODER, ROTARY (12 TYPE)(VOLUME)			
R671	1-249-422-11	CARBON	2.7K	5%	1/4W F	S611	1-762-875-21	SWITCH, KEYBOARD (UP)			
R672	1-249-420-11	CARBON	1.8K	5%	1/4W F	S612	1-762-875-21	SWITCH, KEYBOARD (DOWN)			
R673	1-249-422-11	CARBON	2.7K	5%	1/4W F	S613	1-762-875-21	SWITCH, KEYBOARD (V-GROOVE)			
R674	1-247-843-11	CARBON	3.3K	5%	1/4W	S614	1-762-875-21	SWITCH, KEYBOARD (LOOP)			
R675	1-249-425-11	CARBON	4.7K	5%	1/4W F	S615	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)			
R676	1-249-427-11	CARBON	6.8K	5%	1/4W F	S616	1-762-875-21	SWITCH, KEYBOARD (REC/PAUSE)			
R677	1-249-429-11	CARBON	10K	5%	1/4W	S617	1-762-875-21	SWITCH, KEYBOARD (ENTER/NEXT)			
R678	1-249-432-11	CARBON	18K	5%	1/4W	S618	1-762-875-21	SWITCH, KEYBOARD (FF)			
R679	1-249-429-11	CARBON	10K	5%	1/4W	S619	1-762-875-21	SWITCH, KEYBOARD (AMS+)			
R680	1-249-410-11	CARBON	270	5%	1/4W F						

PANEL

POWER AMP

Ref. No.	Part No.	Description	Remarks
S620	1-762-875-21	SWITCH, KEYBOARD (PAUSE)	
S621	1-762-875-21	SWITCH, KEYBOARD (AMS-)	
S622	1-762-875-21	SWITCH, KEYBOARD (PICTURE EFFECT)	
S623	1-762-875-21	SWITCH, KEYBOARD (LEFT)	
S624	1-762-875-21	SWITCH, KEYBOARD (RIGHT)	
S625	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)	
S626	1-762-875-21	SWITCH, KEYBOARD (STOP)	
S627	1-762-875-21	SWITCH, KEYBOARD (CD)	
S628	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)	
S629	1-762-875-21	SWITCH, KEYBOARD (PLAY)	
S630	1-762-875-21	SWITCH, KEYBOARD (MD(VIDEO)	
S631	1-762-875-21	SWITCH, KEYBOARD (REV)	
S632	1-762-875-21	SWITCH, KEYBOARD (SURROUND)	
S633	1-762-875-21	SWITCH, KEYBOARD (DIRECTION)	
S634	1-762-875-21	SWITCH, KEYBOARD (REPEAT)	
S635	1-762-875-21	SWITCH, KEYBOARD (PLAY MODE)	
S636	1-762-875-21	SWITCH, KEYBOARD (EDIT)	
S637	1-762-875-21	SWITCH, KEYBOARD (POWER)	
S638	1-762-875-21	SWITCH, KEYBOARD (GROOVE)	
S639	1-762-875-21	SWITCH, KEYBOARD (EQ EDIT)	
S640	1-762-875-21	SWITCH, KEYBOARD (SPECTRUM)	
S641	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)	
< VIBRATOR >			
X601	1-579-352-11	VIBRATOR, CERAMIC 12.5MHz	

A-4428-094-A	POWER AMP BOARD, COMPLETE (VX55:E,IA,EA,TW,HK,SP,MY/VX55J:JE)		

A-4428-901-A	POWER AMP BOARD, COMPLETE(VX55:TH)		

A-4473-050-A	POWER AMP BOARD, COMPLETE(VX55J:EA)		

< CAPACITOR >			
C501	1-126-963-11	ELECT	4.7uF 20.00% 50V
C502	1-162-294-31	CERAMIC	0.001uF 10% 50V
C503	1-162-286-21	CERAMIC	220PF 10.00% 50V
C504	1-104-665-11	ELECT	100uF 20.00% 10V
C507	1-136-495-11	MYLAR	0.068uF 5.00% 50V
C508	1-136-495-11	MYLAR	0.068uF 5.00% 50V
C509	1-128-560-11	ELECT	22uF 20.00% 100V
C510	1-128-578-11	ELECT	1uF 20.00% 100V
C511	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
C512	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
C541	1-136-165-00	MYLAR	0.1uF 5.00% 50V
C542	1-127-753-11	ELECT	3300uF 20% 71V
C551	1-126-963-11	ELECT	4.7uF 20.00% 50V
C552	1-162-294-31	CERAMIC	0.001uF 10% 50V
C553	1-162-286-21	CERAMIC	220PF 10.00% 50V
C554	1-104-665-11	ELECT	100uF 20.00% 10V
C557	1-136-495-11	MYLAR	0.068uF 5.00% 50V
C558	1-136-495-11	MYLAR	0.068uF 5.00% 50V
C559	1-128-560-11	ELECT	22uF 20.00% 100V
C581	1-126-967-11	ELECT	47uF 20.00% 50V

Ref. No.	Part No.	Description	Remarks
C591	1-136-165-00	MYLAR	0.1uF 5.00% 50V
C592	1-127-753-11	ELECT	3300uF 20% 71V
C942	1-126-964-11	ELECT	10uF 20.00% 50V
C943	1-126-968-11	ELECT	100uF 20.00% 50V
C980	1-164-159-21	CERAMIC	0.1uF 50V
< CONNECTOR >			
CN502	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P	
CN503	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P	
< DIODE >			
D501	8-719-991-33	DIODE 1SS133T-77	
D502	8-719-991-33	DIODE 1SS133T-77	
D541	8-719-302-38	DIODE RBV-602-01	
D551	8-719-991-33	DIODE 1SS133T-77	
D581	8-719-991-33	DIODE 1SS133T-77	
D941	8-719-110-90	DIODE MTZJ-T-77-39D	
D979	8-719-023-80	DIODE CL-61R-CD-271TL	
< EARTH >			
* EP502	1-537-738-21	TERMINAL, EARTH	
< IC >			
IC501	8-749-016-96	IC STK402-120S	
< TRANSISTOR >			
Q501	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q503	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q504	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q505	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q506	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q551	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q581	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q941	8-729-048-52	TRANSISTOR 2SA1932(TP)	
< RESISTOR >			
R501	1-249-417-11	CARBON	1K 5% 1/4W F
R502	1-249-438-11	CARBON	56K 5% 1/4W
R503	1-249-414-11	CARBON	560 5% 1/4W F
R504	1-249-438-11	CARBON	56K 5% 1/4W
R505	1-249-417-11	CARBON	1K 5% 1/4W F
R506	1-249-431-11	CARBON	15K 5% 1/4W
R507	1-249-441-11	CARBON	100K 5% 1/4W
△ R508	1-217-156-00	METAL	0.22 20% 5W
R509	1-260-076-11	CARBON	10 5% 1/2W
△ R510	1-217-156-00	METAL	0.22 20% 5W
△ R511	1-212-881-11	FUSIBLE	100 5% 1/4W
△ R512	1-202-972-61	FUSIBLE	1 5% 1/4W
R513	1-249-435-11	CARBON	33K 5% 1/4W
R514	1-249-421-11	CARBON	2.2K 5% 1/4W F
R515	1-247-863-91	CARBON	22K 5% 1/4W
R516	1-249-429-11	CARBON	10K 5% 1/4W
R517	1-249-421-11	CARBON	2.2K 5% 1/4W F
R518	1-249-435-11	CARBON	33K 5% 1/4W
R519	1-249-439-11	CARBON	68K 5% 1/4W
R521	1-249-441-11	CARBON	100K 5% 1/4W

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

POWER AMP

TRANS

VIDEO

Ref. No.	Part No.	Description	Remarks
R522	1-249-441-11	CARBON 100K 5%	1/4W
R523	1-249-441-11	CARBON 100K 5%	1/4W
R541	1-249-437-11	CARBON 47K 5%	1/4W
R551	1-249-417-11	CARBON 1K 5%	1/4W F
R552	1-249-438-11	CARBON 56K 5%	1/4W
R553	1-249-414-11	CARBON 560 5%	1/4W F
R554	1-249-438-11	CARBON 56K 5%	1/4W
R555	1-249-417-11	CARBON 1K 5%	1/4W F
R556	1-249-431-11	CARBON 15K 5%	1/4W
R557	1-249-441-11	CARBON 100K 5%	1/4W
△ R558	1-217-156-00	METAL 0.22 20%	5W
R559	1-260-076-11	CARBON 10 5%	1/2W
△ R560	1-217-156-00	METAL 0.22 20%	5W
△ R561	1-212-881-11	FUSIBLE 100 5%	1/4W
R581	1-249-435-11	CARBON 33K 5%	1/4W
R582	1-249-435-11	CARBON 33K 5%	1/4W
R591	1-249-437-11	CARBON 47K 5%	1/4W
R942	1-249-429-11	CARBON 10K 5%	1/4W
R943	1-249-417-11	CARBON 1K 5%	1/4W F
R980	1-249-429-11	CARBON 10K 5%	1/4W
< THERMISTOR >			
TH501	1-807-796-11	THERMISTOR	

	1-676-808-11	TRANS BOARD	

	1-533-293-11	FUSE HOLDER	
< CAPACITOR >			
C941	1-126-969-11	ELECT 220uF 20.00%	50V
< CONNECTOR >			
CN975	1-564-321-00	PIN, CONNECTOR 2P	
* CN977	1-564-527-11	PLUG, CONNECTOR 12P	
< DIODE >			
D977	8-719-024-99	DIODE 11ES2-NTA2B	
< FUSE >			
△ F971	1-532-506-31	FUSE 6.3A	
△ F973	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) 6.3 A / 250 V	
△ F974	1-532-506-31	FUSE 6.3A	
△ F975	1-532-506-31	FUSE 6.3A	
< RESISTOR >			
△ R941	1-202-972-61	FUSIBLE 1 5%	1/4W
△ R951	1-219-120-11	FUSIBLE 0.15 5%	1/4W
△ R952	1-219-120-11	FUSIBLE 0.15 5%	1/4W
△ R953	1-219-120-11	FUSIBLE 0.15 5%	1/4W
< TRANSFORMER >			
△ T972	1-435-262-11	TRANSFORMER, POWER	
< SWITCH >			
△ S951	1-771-291-31	SWITCH, POWER (VOLTAGE SELECTOR)	

Ref. No.	Part No.	Description	Remarks
	A-4724-973-A	VIDEO BOARD, COMPLETE	

< CAPACITOR >			
C101	1-124-778-00	ELECT CHIP 22uF 20%	6.3V
C102	1-163-143-00	CERAMIC CHIP 0.0012uF 5%	50V
C103	1-163-017-00	CERAMIC CHIP 0.0047uF 5%	50V
C201	1-124-778-00	ELECT CHIP 22uF 20%	6.3V
C202	1-163-143-00	CERAMIC CHIP 0.0012uF 5%	50V
C203	1-163-017-00	CERAMIC CHIP 0.0047uF 5%	50V
C304	1-163-127-00	CERAMIC CHIP 270PF 5%	50V
C305	1-163-235-11	CERAMIC CHIP 22PF 5.00%	50V
C306	1-163-127-00	CERAMIC CHIP 270PF 5%	50V
C307	1-163-235-11	CERAMIC CHIP 22PF 5.00%	50V
C308	1-163-263-11	CERAMIC CHIP 330PF 5.00%	50V
C309	1-163-263-11	CERAMIC CHIP 330PF 5.00%	50V
C310	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C311	1-124-778-00	ELECT CHIP 22uF 20%	6.3V
C312	1-163-017-00	CERAMIC CHIP 0.0047uF 5%	50V
C313	1-163-259-91	CERAMIC CHIP 220PF 5.00%	50V
C314	1-163-235-11	CERAMIC CHIP 22PF 5.00%	50V
C315	1-163-255-11	CERAMIC CHIP 150PF 5.00%	50V
C316	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C317	1-126-193-11	ELECT 1uF 20%	50V
C318	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C319	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C320	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C321	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C322	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C323	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C324	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C325	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C401	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C402	1-124-778-00	ELECT CHIP 22uF 20%	6.3V
C504	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C505	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C506	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C507	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C508	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C509	1-163-275-11	CERAMIC CHIP 0.001uF 5.00%	50V
C510	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C531	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C532	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C535	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C536	1-126-193-11	ELECT 1uF 20%	50V
C537	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C539	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C540	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C541	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C542	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C543	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C544	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C545	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C546	1-165-319-11	CERAMIC CHIP 0.1uF	50V

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Replace only with part number specified.

VIDEO

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C547	1-126-193-11	ELECT 1uF 20%	50V	JW413	1-216-295-91	SHORT 0	
C548	1-165-319-11	CERAMIC CHIP 0.1uF	50V	JW504	1-216-295-91	SHORT 0	
C549	1-165-319-11	CERAMIC CHIP 0.1uF	50V	JW505	1-216-295-91	SHORT 0	
C550	1-163-275-11	CERAMIC CHIP 0.001uF 5.00%	50V	JW513	1-216-295-91	SHORT 0	
C551	1-165-319-11	CERAMIC CHIP 0.1uF	50V	< COIL >			
C552	1-165-319-11	CERAMIC CHIP 0.1uF	50V	L301	1-410-372-21	INDUCTOR CHIP 1.8uH	
C553	1-126-206-11	ELECT CHIP 100uF 20%	6.3V	L302	1-410-372-21	INDUCTOR CHIP 1.8uH	
C555	1-124-778-00	ELECT CHIP 22uF 20%	6.3V	L303	1-410-658-31	INDUCTOR CHIP 220uH	
C556	1-165-319-11	CERAMIC CHIP 0.1uF	50V	L501	1-216-296-91	SHORT 0	
C559	1-126-206-11	ELECT CHIP 100uF 20%	6.3V	L502	1-216-296-91	SHORT 0	
C561	1-163-233-11	CERAMIC CHIP 18PF 5.00%	50V	L504	1-410-375-11	INDUCTOR CHIP 3.3uH	
C563	1-165-319-11	CERAMIC CHIP 0.1uF	50V	L505	1-216-296-91	SHORT 0	
C564	1-165-319-11	CERAMIC CHIP 0.1uF	50V	L506	1-216-296-91	SHORT 0	
C565	1-126-206-11	ELECT CHIP 100uF 20%	6.3V	L507	1-216-296-91	SHORT 0	
C566	1-165-319-11	CERAMIC CHIP 0.1uF	50V	L508	1-216-296-91	SHORT 0	
C568	1-126-206-11	ELECT CHIP 100uF 20%	6.3V	L509	1-216-296-91	SHORT 0	
C569	1-126-206-11	ELECT CHIP 100uF 20%	6.3V	L510	1-216-296-91	SHORT 0	
C570	1-126-206-11	ELECT CHIP 100uF 20%	6.3V	L511	1-469-145-21	FERRITE 0uH	
C571	1-128-065-11	ELECT CHIP 68uF 20.00%	10V	L512	1-469-145-21	FERRITE 0uH	
C573	1-163-235-11	CERAMIC CHIP 22PF 5.00%	50V	L513	1-469-145-21	FERRITE 0uH	
C574	1-163-235-11	CERAMIC CHIP 22PF 5.00%	50V	< TRANSISTOR >			
C576	1-163-235-11	CERAMIC CHIP 22PF 5.00%	50V	Q501	8-729-900-53	TRANSISTOR DTC114EKA-T146	
C577	1-163-235-11	CERAMIC CHIP 22PF 5.00%	50V	Q502	8-729-900-53	TRANSISTOR DTC114EKA-T146	
< CONNECTOR >				Q531	8-729-140-75	TRANSISTOR 2SD999-T1-CLCK	
CN501	1-779-343-21	CONNECTOR, FFC/FPC 23P		< RESISTOR >			
CN502	1-779-416-11	CONNECTOR, FFC(LIF(NON-ZIF))13P		R101	1-216-073-00	METAL CHIP 10K 5% 1/10W	
CN503	1-774-766-21	CONNECTOR, FFC/FPC 11P		R102	1-208-441-61	RES-CHIP 1.5K 2% 1/10W	
< TRIMMER >				R103	1-208-441-61	RES-CHIP 1.5K 2% 1/10W	
CT503	1-141-539-11	CAP, ADJ 10PF		R201	1-216-073-00	METAL CHIP 10K 5% 1/10W	
< DIODE >				R202	1-208-441-61	RES-CHIP 1.5K 2% 1/10W	
D501	8-719-422-12	DIODE UDZ-TE-17-3.9B		R203	1-208-441-61	RES-CHIP 1.5K 2% 1/10W	
< IC >				R302	1-216-624-11	METAL CHIP 75 0.5% 1/10W	
IC101	8-759-701-40	IC NJM2100M(TE2)		R303	1-216-624-11	METAL CHIP 75 0.5% 1/10W	
IC301	8-759-530-30	IC TC74VHCU04FT(EL)		R306	1-216-624-11	METAL CHIP 75 0.5% 1/10W	
IC302	8-759-662-94	IC NJM2255M(TE2)		R308	1-216-073-00	METAL CHIP 10K 5% 1/10W	
IC303	8-759-711-47	IC NJM2209M(TE2)		R309	1-216-073-00	METAL CHIP 10K 5% 1/10W	
IC304	8-759-662-95	IC BA7665FS-E2		R310	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
IC501	8-759-530-30	IC TC74VHCU04FT(EL)		R311	1-216-029-00	METAL CHIP 150 5% 1/10W	
IC502	8-759-663-01	IC M30624MCA-A34FP		R312	1-216-073-00	METAL CHIP 10K 5% 1/10W	
IC504	8-759-530-30	IC TC74VHCU04FT(EL)		R313	1-216-073-00	METAL CHIP 10K 5% 1/10W	
IC505	8-759-535-48	IC CL680T-D1		R314	1-216-059-00	METAL CHIP 2.7K 5% 1/10W	
IC506	8-759-677-67	IC LC372100PM-K98-TLA		R315	1-216-624-11	METAL CHIP 75 0.5% 1/10W	
IC507	8-759-342-01	IC MSM514260C-60JS		R316	1-216-022-00	METAL CHIP 75 5% 1/10W	
IC509	8-759-535-62	IC PCM1727E-2/T2		R317	1-216-022-00	METAL CHIP 75 5% 1/10W	
< JACK >				R318	1-216-295-91	SHORT 0	
J301	1-537-943-11	TERMINAL, S (S VIDEO)		R319	1-216-624-11	METAL CHIP 75 0.5% 1/10W	
J302	1-774-227-11	JACK, PIN 1P (VIDEO)		R320	1-216-295-91	SHORT 0	
< JUMPER RESISTOR >				R403	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
JW101	1-216-295-91	SHORT 0		R404	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
JW201	1-216-295-91	SHORT 0		R501	1-216-025-91	RES-CHIP 100 5% 1/10W	
JW301	1-216-295-91	SHORT 0		R502	1-216-025-91	RES-CHIP 100 5% 1/10W	
JW302	1-216-025-91	RES-CHIP 100 5%	1/10W	R503	1-216-025-91	RES-CHIP 100 5% 1/10W	
JW304	1-216-295-91	SHORT 0		R504	1-216-025-91	RES-CHIP 100 5% 1/10W	
				R505	1-216-025-91	RES-CHIP 100 5% 1/10W	
				R506	1-216-025-91	RES-CHIP 100 5% 1/10W	

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
R507	1-216-073-00	METAL CHIP	10K 5% 1/10W			MISCELLANEOUS	
R508	1-216-073-00	METAL CHIP	10K 5% 1/10W			*****	
R516	1-216-073-00	METAL CHIP	10K 5% 1/10W				
R517	1-216-073-00	METAL CHIP	10K 5% 1/10W	10	1-769-987-11	WIRE(FLAT TYPE) (13 CORE)(VX55)	
R518	1-216-073-00	METAL CHIP	10K 5% 1/10W	101	1-773-045-11	WIRE (FLAT TYPE) (17 CORE)	
				104	1-773-122-11	WIRE (FLAT TYPE) (19 CORE)	
R519	1-216-025-91	RES-CHIP	100 5% 1/10W	△ 108	1-777-071-21	CORD, POWER (VX55J:EA)	
R520	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	△ 108	1-777-071-51	CORD, POWER (VX55:EA,TW,HK,SP,MY)	
R521	1-216-073-00	METAL CHIP	10K 5% 1/10W				
R523	1-216-013-00	METAL CHIP	33 5% 1/10W	△ 108	1-791-901-11	CORD, POWER (VX55:E,IA,TH/VX55J:JE)	
R530	1-216-025-91	RES-CHIP	100 5% 1/10W	△ 109	1-569-007-11	ADAPTOR, CONVERSION (VX55:E,IA/VX55J:JE)	
				△ 109	1-569-008-21	ADAPTOR, CONVERSION 2P	
R531	1-216-025-91	RES-CHIP	100 5% 1/10W			(VX55:TW,SP,MY/VX55J:EA)	
R532	1-216-295-91	SHORT	0	△ 109	1-569-008-31	ADAPTOR, CONVERSION	
R533	1-216-295-91	SHORT	0			(VX55:EA,TW,SP,MY/VX55J:EA)	
R534	1-216-073-00	METAL CHIP	10K 5% 1/10W	△ 109	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (VX55:HK)	
R535	1-216-073-00	METAL CHIP	10K 5% 1/10W				
				259	1-791-983-12	WIRE (FLAT TYPE) (8 CORE)	
R536	1-216-033-00	METAL CHIP	220 5% 1/10W	266	1-471-035-11	MAGNET ASSY	
R537	1-216-025-91	RES-CHIP	100 5% 1/10W	272	1-541-632-11	MOTOR, DC	
R538	1-216-073-00	METAL CHIP	10K 5% 1/10W	279	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
R539	1-216-295-91	SHORT	0	△ 281	8-820-116-01	OPICAL PICK-UP BLOCK (KSM-213DAP)	
R540	1-216-295-91	SHORT	0				
				M961	1-763-072-11	FAN, D.C.	
R542	1-216-651-11	METAL CHIP	1K 0.5% 1/10W			*****	
R543	1-216-685-11	METAL CHIP	27K 0.5% 1/10W				
R544	1-216-659-11	METAL CHIP	2.2K 0.5% 1/10W			*****	
R545	1-216-025-91	RES-CHIP	100 5% 1/10W			HARDWARE LIST	
R546	1-216-049-91	RES-CHIP	1K 5% 1/10W			*****	
R548	1-216-049-91	RES-CHIP	1K 5% 1/10W	#1	7-628-254-05	SCREW +PS 2.6X5	
R549	1-216-025-91	RES-CHIP	100 5% 1/10W	#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
R550	1-216-025-91	RES-CHIP	100 5% 1/10W	#3	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
R551	1-216-025-91	RES-CHIP	100 5% 1/10W	#4	7-685-650-79	SCREW +BVTP 3X16 TYPE2 N-S	
R552	1-216-025-91	RES-CHIP	100 5% 1/10W	#5	7-685-648-79	SCREW +BVTP 3X12 TYPE2 N-S	
R555	1-216-121-91	RES-CHIP	1M 5% 1/10W	#6	7-685-881-09	SCREW +BVTT 4X8 (S)	
R556	1-216-025-91	RES-CHIP	100 5% 1/10W				
R557	1-216-025-91	RES-CHIP	100 5% 1/10W				
R560	1-216-653-11	METAL CHIP	1.2K 0.5% 1/10W				
R561	1-216-651-11	METAL CHIP	1K 0.5% 1/10W				
R562	1-216-073-00	METAL CHIP	10K 5% 1/10W				
R563	1-216-073-00	METAL CHIP	10K 5% 1/10W				
R577	1-216-081-00	METAL CHIP	22K 5% 1/10W				
R578	1-216-081-00	METAL CHIP	22K 5% 1/10W				
R579	1-216-073-00	METAL CHIP	10K 5% 1/10W				
R580	1-216-073-00	METAL CHIP	10K 5% 1/10W				
		< VIBRATOR >					
X501	1-767-510-11	VIBRATOR, CERAMIC 10MHz					
X503	1-767-519-11	VIBRATOR, CRYSTAL 27MHz					

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

SS-DX5/DX5B/DX5J/DX8/DX8B/ VX55/VX55B/VX55J/VX88/VX88B

SERVICE MANUAL

Ver 1.0 2000.2



Photo: SS-DX5

- This set is the speaker system in MHC-DX5/DX5J/DX8/VX55/VX55J/VX88.

E Model

SS-DX5/DX5B/DX5J/DX8/DX8B/
VX55/VX55B/VX55J/VX88/VX88B

Australian Model

SS-DX5/DX8

Tourist Model

SS-VX55J

SPECIFICATIONS

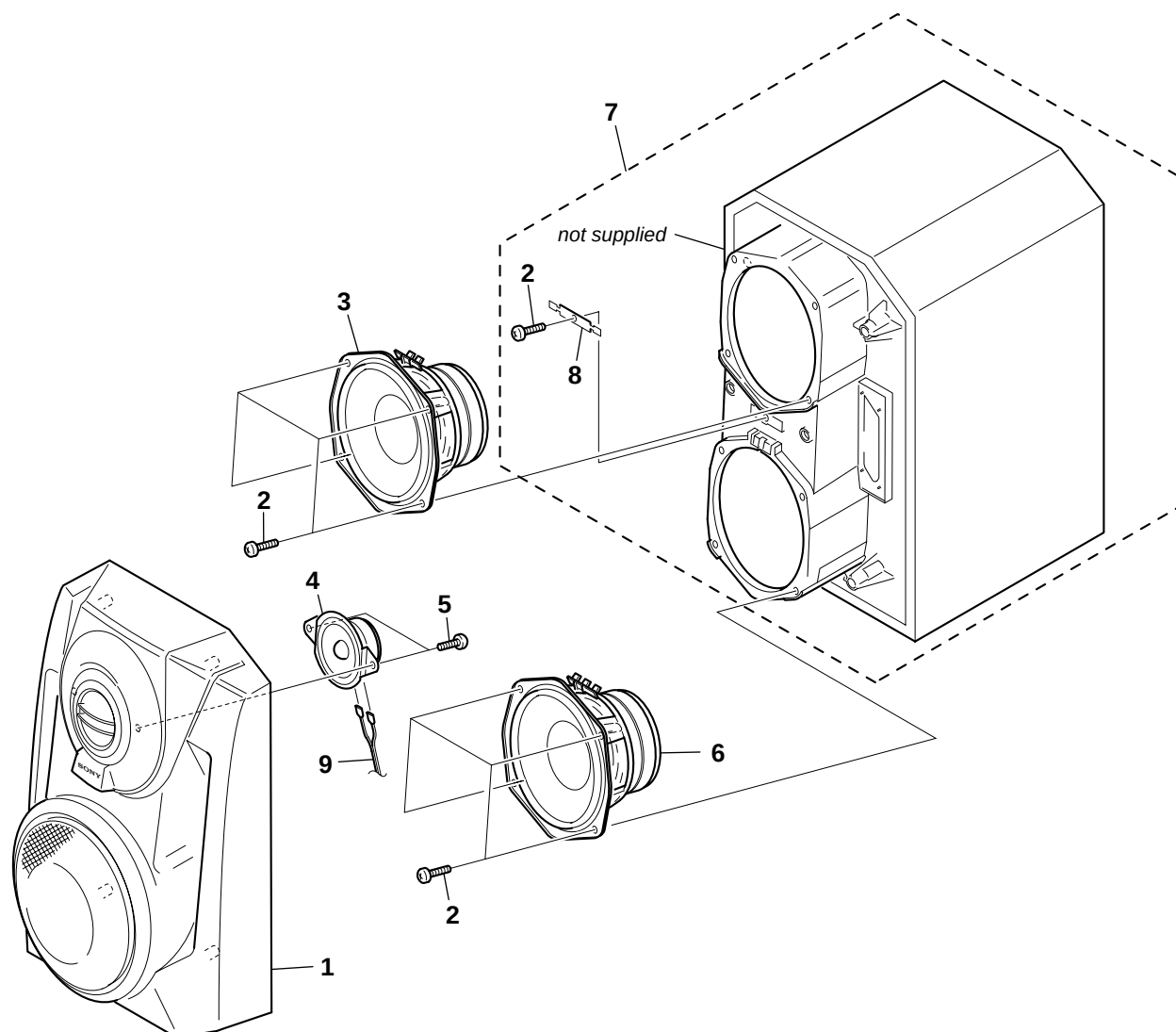
Speaker system	3-way, 3-unit, bass-reflex type
Speaker units	
Super Woofer:	15 cm, cone type
Woofer:	15 cm, cone type (DX5/DX5B/DX5J/DX8/DX8B) 15 cm, hop type (VX55/VX55B/VX55J/VX88/VX88B)
Tweeter:	5 cm, cone type
Nominal impedance	6 Ω
Dimensions (w/h/d)	Approx. 250 × 360 × 360 mm (9 7/8 × 14 1/4 × 14 1/4 in.)
Mass	Approx. 6.2 kg net per (DX5/DX5B/DX5J/DX8/DX8B) Approx. 7.1 kg net per (VX55/VX55B/VX55J/VX88/VX88B)

Design and specifications are subject to change without notice

SPEAKER SYSTEM

SONY®

EXPLODED VIEW AND PARTS LIST



• Abbreviation

- EA : Saudi Arabia model.
- MX : Mexican model.
- TH : Thai model.
- AUS : Australian model.

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	A-4412-045-A	FRONT PANEL ASSY (DX5:EA)		5	4-986-971-01	SCREW(3.5)	
1	A-4412-047-A	FRONT PANEL ASSY (DX5:E,TH,AUS/DX5J/DX8/VX55:TH/VX55J/VX88)		6	1-529-572-11	SPEAKER (15cm)(DX5/DX5B/DX5J/DX8/DX8B)	
1	A-4412-252-A	FRONT PANEL ASSY (VX55:EA)		6	1-529-691-11	SPEAKER (15cm)(VX88/VX88B)	
1	A-4412-243-A	FRONT PANEL ASSY (VX55:E)		6	1-529-694-11	SPEAKER (15cm)(VX55/VX55B/VX55J)	
1	A-4412-045-A	FRONT PANELASSY (DX5B/DX8B/VX55B/VX88B)		7	A-4411-948-A	SPEAKER CABINET ASSY (DX5:E,EA,AUS/DX8:E,EA,MX,AUS/VX88:E,EA)	
2	4-874-614-21	SCREW(4) (3.5X14), TAPPING		7	A-4412-253-A	SPEAKER CABINET ASSY (VX55:EA)	
3	1-529-571-11	SPEAKER (15cm)(DX5/DX5B/DX5J/DX8/DX8B)		7	A-4412-241-A	SPEAKER CABINET ASSY (DX5:TH/DX8:TH/VX55:TH/VX88:TH)	
3	1-529-690-11	SPEAKER (15cm)(VX88/VX88B)		7	A-4412-242-A	SPEAKER CABINET ASSY (VX55:E)	
3	1-529-693-11	SPEAKER (15cm)(VX55/VX55B/VX55J)		7	A-4412-244-A	SPEAKER CABINET ASSY (DX5J,VX55J)	
4	1-529-573-11	SPEAKER (5cm)(DX5/DX5B/DX5J/DX8:TH)		7	A-4411-948-A	SPEAKER CABINET ASSY (DX5B/DX8B/VX55B/VX88B)	
4	1-529-692-11	SPEAKER (5cm) (DX8:E,EA,MX,AUS/DX8B/VX88/VX88B)		8	1-694-650-11	TERMINAL	
4	1-529-695-11	SPEAKER (5cm)(VX55/VX55J)		9	1-775-512-21	CORD,SPEAKER CONNECTION	